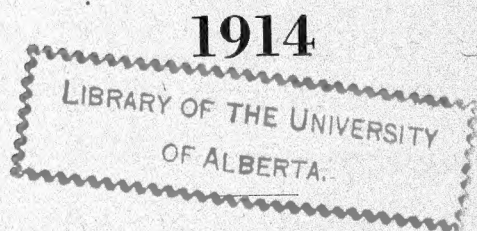


ANNUAL REPORT
OF THE
DEPARTMENT OF PUBLIC WORKS
OF THE
PROVINCE OF ALBERTA



PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY



EDMONTON:
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EDMONTON, February 24, 1915.

To His Honour,

GEORGE HEDLEY VICARS BULYEA,

Lieutenant Governor of the Province of Alberta.

SIR,—I have the honour to transmit the Annual Report of the Department of Public Works from January 1st to December 31st, 1914.

I have the honour to be, Sir,

Your obedient servant,

CHAS. STEWART,

Minister of Public Works.

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REPORT

OF THE

DEPUTY MINISTER OF PUBLIC WORKS

HON. CHARLES STEWART, M.P.P.,
Minister of Public Works.

SIR,—I have the honour to submit herewith the report of the Department of Public Works for the year 1914.

The work of your department was somewhat restricted during the latter part of the year owing to conditions produced by the war. It was considered advisable to defer starting some work that was being contemplated, but, the really necessary work was proceeded with as usual. On account of the partial crop failure in some districts it was decided to undertake considerable work, in the nature of road improvements, in those localities for the double purpose of getting the roads in passable shape and at the same time relieving the hardship of the settlers affected.

In the Highways Branch the bridge crews operated during the season as usual. The total number of bridges dealt with during the year was considerably larger than in 1913, but this increase in numbers was largely produced by the greater number of bridges that it was found necessary to repair. As many of the older wooden bridges were constructed from lighter material than our present standard plans call for, and have been further weakened by time, it is found necessary to replace them with new structures or strengthen them to carry the heavier traffic of the present. This is a condition of affairs that will grow from year to year, as the number of bridges have increased in the Province, until the work of repair and re-construction may become so great as to seriously interfere with our ability to undertake new and necessary work of construction.

The total number of bridges dealt with during the year was 594. Of these 251 were repairs; 325 were new wooden bridges and 18 were steel bridges constructed.

A list of all bridges constructed and repaired and a descriptive list of the steel bridges will be found in the report of the Highways Branch.

There are now 68 ferries in the province. Of these 66 were operated in 1914 and 2 are ready to be operated as soon as the season opens.

A considerable amount of trunk road work was carried on during the year. The principal main highways being constructed are:

(1) From Coutts through Lethbridge, Macleod, Calgary, Red Deer, Edmonton to Athabasca and the Peace River Country.

(2) From Walsh through Medicine Hat, Lethbridge and Pincher Creek to the Crow's Nest Pass.

(3) From Medicine Hat to Gleichen, Calgary and the Banff National Park.

(4) From the Inter-Provincial Boundary through Castor, Stettler, Red Deer to Rocky Mountain House.

(5) From Chauvin through Wainwright and Tofield to Edmonton.

(6) From Lloydminster through Vermilion, Vegreville and Fort Saskatchewan to Edmonton and west to Wabamun and Entwistle.

When these roads are completely improved and extended and supplemented by main connecting roads, we will have a provincial system of highways that will serve our purpose for the present. A considerable amount of work remains to be done before these roads will be entirely connected up and improved.

A full report of the work of the Highways Branch will be found in the report of the Engineer of Highways.

You will see from the report submitted by the Provincial Architect that considerable work of an important nature was carried out by the Architectural and Building construction Branches of your department during the year.

Work has been carried on in connection with the normal school at Camrose, the north dormitory building of the Ponoka asylum and the provincial jail at Fort Saskatchewan. The telephone building at Medicine Hat was built and telephone buildings at Camrose and Wetaskiwin started. Alterations and repairs were made to the court houses at Stettler, Macleod and Calgary. Necessary repairs were also made in the maintenance of the other public buildings of the province.

In the report of the Surveys Branch it is to be seen that there has been a considerable increase in the work of the past year over that of 1913. This increase is seen in both the number of surveys made and the number of surveys asked for, and also in the amount of compensation paid. The season was generally favourable for field work and we were thus able to accomplish a considerable amount of necessary work.

The report from the Mines Branch shows that the output from the mines in the province decreased from 4,306,346 tons in 1913 to 3,821,739 tons in 1914, a decrease of 484,607 tons, being 11.25%. There were 42 new mines opened during the year, and there is now a total of 264 mines in the province. There were 209 fatal accidents, including 189 which occurred in connection with the Hillcrest mine disaster. One of these accidents was above ground and 208 below ground.

General regulations under section 138 of The Mines Act were put into force November 11th, 1914. These regulations amongst other things provide for the better regulation of safety lamps and presence of coal dust in mines.

The work at the mine rescue stations has been carried on very satisfactorily during the year, and a substation has been installed at Taber, and a mine rescue car placed in the Canmore and Bankhead district.

In the administration of The Steam Boilers Act your department has had a successful year. There has been a considerable increase in the number of boilers inspected. The revenue from this branch has decreased somewhat, but this is due in a large measure to the decrease in the number of applicants for engineers certificates, the province being well covered by engineers whose certificates are good for life. An Inspector was sent into the Peace River country during the summer and the steam boilers in use in that part of the country were subjected to an inspection.

There was a slight decrease in the work of the Correspondence Branch, but the report of the accountant shows an increased number of accounts dealt with as compared with the year 1913.

Details in regard to the work performed by the different branches of your department will be found attached hereto.

Respectfully submitted,

JOHN STOCKS,

Deputy Minister.

HIGHWAYS BRANCH

JOHN STOCKS, ESQ.,
Deputy Minister of Public Works,
Edmonton.

SIR,—I beg to submit the following report in connection with the work of the Highways Branch for the year 1914. In connection with the bridges I have to report that of the 594 bridges dealt with during the year 1914, 325 timber structures were erected, 18 steel bridges were completed and 251 bridges were repaired.

The following steel bridges, begun in 1913, were completed in 1914:

The 175 ft. steel span on concrete substructure over the High River at High River.

The 135 ft. steel span on concrete abutments over Milk River at Milk River.

The 90 ft. steel span on concrete abutments over the Sturgeon River at St. Albert.

The 80 ft. steel span on concrete abutments over Blackmud Creek south-west of Edmonton.

The 80 ft. steel span on concrete abutments over Sturgeon River on the Landing Trail.

The 80 ft. steel span on concrete abutments over the Sturgeon River at Battenberg.

Steel bridges on concrete substructures were also built on the following locations:

Three 150 ft. spans over Red Deer River at Drumheller.

One 125 ft. span over Blindman River, 15/16-37-27-4.

One 60 ft. span over Vermilion River, 35/36-50-6-4.

One 60 ft. span over Vermilion River, 1/6-51-8/9-4.

One 80 ft. span over Pincher Creek, 7-7-28-4.

Steel bridges on pile substructures were erected on the following locations:

One 125 ft. and one 80 ft. span over Clearwater River, at 9/10-39-7-4.

One 80 ft. span over Blindman River, 7/18-41-1-5.

One 80 ft. span over Battle River, 31-45-22-4.

One 80 ft. span over Willow Creek, 5-14-29-4.

One 60 ft. span over Beaver Creek, 4/5-56-19-4.

One 60 ft. span over Beaver Creek, 34/35-55-19-4.

One 60 ft. span over Sturgeon River below St. Albert.

In connection with the ferry service, I have to report that 66 ferries were operated by this department during the season of 1914.

It was necessary during the season to re-construct six new ferry scows, one of which was a pontoon constructed for use at Peace River Crossing, which was found to work very satisfactorily during the extreme high water for which purpose it was intended, but was not found to be as satisfactory as the old type in the latter part of the season, when the water was low. We are, however, making alterations, which will no doubt overcome this difficulty.

Six new ferries were built and installed during the season and one already operated by private interests was purchased by this department.

In addition to the above, three scows were moved to new locations, two on account of the construction of bridges at old location, which therefore rendered the ferry unnecessary, and one of them was moved to better answer the general public, as the trend of traffic invariably changes as the country is developed by railroad construction.

On the whole the ferry service appeared to give very good satisfaction throughout the entire season, with the exception possibly of a couple of weeks during high water in the early part of the summer. The water being much higher than usual the traffic was held up in quite a few places, but no serious losses were sustained.

In connection with the road work carried on during 1914, I beg to report that the most important point in this connection is the co-operation some of our inspectors were able to obtain from the rural municipalities and local improvement districts, and it apparently worked out very satisfactorily. Some of our inspectors were able after the appropriation by the government had been exhausted on a piece of work to carry same to completion with funds supplied by the rural municipality or local improvement district. The result in all these cases seem to be satisfactory to the local organization and we sincerely hope to have even further co-operation during the coming season.

In the outlying districts, a great deal of the work carried on during 1914 consisted of laying brush and corduroy and temporarily fixing the worst parts of the road allowances and surveyed trails and making the road passable to allow settlers to get to business centres. However, the work carried out by our regular crews on the trunk roads or any part of the main road system was of a more permanent nature, strict attention being given to proper drainage and construction of side ditches, so that water would not stand on the road bed. An effort has also been made to establish a standard type of earth road, it being found in the past that where a road bed was constructed too wide that it was practically useless. We, therefore, adopted a 16 ft. road bed in all cases, except where leading into large business centres, in which case the traffic warrants a greater width.

A full list is attached showing all bridges dealt with, all ferries operated and all roads improved during the year 1914.

I have the honour to be, Sir,

Your obedient servant,

J. D. ROBERTSON,

Engineer of Highways.

Edmonton, Feb. 24, 1915.

BRIDGES.

STREAM	LOCATION	REMARKS
Arrowood Creek	21/28-19-25-4	Repairs.
Arrowood Creek	27/28-19-25-4	One 20 ft. span on piles.
Amisk Creek	22/27-50-18-4	Three 20 ft. spans on piles.
Baptiste Creek	6/1-67-23/24-4	Repairs.
Battle River	At Duhamel	Repairs.
Battle River	S. 2-42-17-4	Repairs.
Battle River	5-46-20-4	Painting.
Bow River	34/33-25-4-5	Repairs.
Big Hill Creek	3-26-4-5	Refloored.
Beaupre Creek	15-26-5-5	Refloored.
Bow River	At Morley	Repairs.
Big Hill Creek	11-26-4-5	One 20 ft. span on piles.
Big Hill Creek	11-26-4-5	One 20 ft. span on piles.
Big Hill Creek	13-26-4-5	One 20 ft. span on piles.
Big Hill Creek	13-26-4-5	One 20 ft. span on piles.
Big Hill Creek	29-26-3-5	One 20 ft. span on piles.
Beaver Dam Creek	31/32-38-13-4	Two 20 ft. spans on piles.
Blackmud Creek	1-52-25-4	One 80 ft. steel span on concrete abutments.
Blackmud Creek	7/18-51-24-4	Repairs.
Blackmud Creek	31/32-51-24-4	Repairs.
Bench Creek	5/6-54-16-5	One 40 ft. log bridge.
Bench Creek	31-53-16-5	One 40 ft. log bridge.
Bow River	South of Gleichen	Repairs.
Berry Creek	35/36-27-12-4	Three 20 ft. spans on piles.
Berry Creek	30-22-12-4	Two 20 ft. spans on piles.
Bullpound Creek	S. 1-27-14-4	Two 18 ft. spans on piles.
Bullpound Creek	23/26-27-14-4	Two 18 ft. spans on piles.
Bullpound Creek	24/25-28-14-4	Three 18 ft. spans on piles.
Berry Creek	4/33-22/23-13-4	Three 20 ft. spans on piles.
Berry Creek	21/28-23-13-4	Three 20 ft. spans on piles.
Berry Creek	21/28-26-12-4	Three 20 ft. spans on frame bents.
Blindman River	21-28-40-1-5	Repairs.
Blindman River	16-39-28-4	Painting.
Blindman River	15-39-27-4	One 125 ft. steel span on concrete abutments.
Blindman River	10/15-40-1-5	Painting.
Blindman River	3-40-1-5	Repairs.
Blindman River	20/29-39-28-4	Painting.
Blindman River	7/18-41-1-5	One 80 ft. steel span on piles.
Blackmud Creek	11-50-24-4	Repairs.
Backwater	13-9-26-4	Repairs.
Backwater	13-9-26-4	Repairs.
Bullhead Creek	16-12-5-4	Repairs.
Bullhead Creek	28/29-11-5-4	Three 20 ft. spans on frame bents.
Bowden Creek	20/29-34-1-5	One 20 ft. span on piles.
Backwater	17-72-2-6	Repairs.
Boucher Creek	7/8-81-3-6	One 16 ft. span on frame bents.
Benjamin Creek	23-82-23-5	One 16 ft. log bridge.
Battle River	31/36-42-25/26-4	Repairs.
Battle River	4-43-25-4	Repairs.
Battle River	9-43-26-4	Repairs.
Battle River	35/36-43-27-4	Painting.
Blindman River	9-43-2-5	Painting.
Blindman River	19/30-42-2-5	Painting.
Blindman River	2/35-41/42-2-5	Painting.
Battle River	4-43-25-4	Repairs.
Broderon Creek	S. 1-42-4-5	One 14 ft. span on piles.

STREAM	LOCATION	REMARKS
Broderson Creek	E. 2-42-4-5	Two 16 ft. spans on piles.
Blindman River	27/28-43-2-5	One 20 ft. and two 18 ft. spans on piles.
Burnt Lake Creek	9/16-38-28-4	Two 20 ft. spans on piles.
Battle River	29-40-9-4	Repairs.
Black Creek	22/27-41-3-4	One 16 ft. span on piles.
Black Creek	9/16-41-3-4	One 16 ft. span on piles.
Black Creek	5/6-41-3-4	One 16 ft. span on piles.
Big Knife Creek	22/27-40-17-4	One 20 ft. span on piles.
Beaver Dam Creek	2/3-38-14-4	Two 18 ft. spans on piles.
Beaver Hills Creek	31/32-54-18-4	Repairs.
Beaver Hills Creek	21/28-54-18-4	Repairs.
Buffalo Coulee	13/14-48-9-4	One 18 ft. span on piles.
Beaver Creek	E. 34-55-19-4	One 60 ft. steel span on piles.
Beaver Creek	5/6-56-19-4	Repairs.
Beaver Creek	1/2-56-20-4	Repairs.
Beaver Creek	10/11-56-20-4	Painting.
Beaver Creek	23/26-55-19-4	Painting.
Beaver Creek	5-57-20-4	Painting.
Beaver Creek	4/5-56-19-4	One 60 ft. steel span on piles.
Brown's Creek	9/10-56-16-4	One 20 ft. span on piles.
Black Creek	27-41-3-4	One 16 ft. span on piles.
Black Creek	9/16-41-3-4	One 16 ft. span on piles.
Black Creek	13/18-41-4/5-4	One 16 ft. span on piles.
Black Creek	5/6-41-3-4	One 16 ft. span on piles.
Battle River	33/34-44-23-4	Painting.
Bigstone Creek	32-46-24-4	Three 18 ft. spans on piles.
Battle River	31-45-22-4	One 80 ft. steel span on piles.
Bigstone Creek	7-46-25-4	Repairs.
Battle River	1/38-44/45-23-4	Painting.
Battle River	R/L/3/27-46-21-4	Painting.
Blindman River	21/28-45-2-5	Two 20 ft. spans on frame bents.
Battle Creek	26-46-3-5	Three 20 ft. spans on piles.
Creek	26/27-67-24-4	One 18 ft. span on frame bents.
Creek	33/4-19-20-4	One 16 ft. span on frame bents.
Creek	11/12-45-20-4	One 16 ft. span on piles.
Coulee	3/4-42-17-4	One 16 ft. span on piles.
Coulee	3/4-42-17-4	One 16 ft. span on piles.
Creek	19/20-43-20-4	Two 16 ft. spans on piles.
Creek	E. 30-47-20-4	One 16 ft. span on piles.
Creek	N. 3-49-20-4	One 16 ft. span on piles.
Creek	E. 25-49-20-4	One 16 ft. span on piles.
Creek	W. 14-45-20-4	One 16 ft. span on piles.
Creek	S. 2-43-19-4	Two 16 ft. spans on piles.
Creek	11/14-45-20-4	One 16 ft. span on piles.
Creek	W. 31-42-18-4	One 16 ft. span on piles.
Creek	33/34-48-16-4	One 16 ft. span on piles.
Creek	4/32-2/3-26-4	Repairs.
Creek	7/18-3-25-4	Repairs.
Creek	16-2-26-4	One 20 ft. span on piles.
Creek	9-3-26-4	Repairs.
Creek	4/5-3-26-4	Repairs.
Coulee	35/36-3-25-4	Large Culvert.
Creek	16-2-26-4	Repairs.
Creek	30-2-24-4	Repairs.
Canal	2/3-5-23-4	Repairs.
Creek	9/16-3-26-4	Repairs.
Canal	28/33-4-23-4	Repairs.
Creek	9-2-25-4	Repairs.
Coulee	10/11-5-20-4	Repairs.

STREAM	LOCATION	REMARKS
Creek	1/2-1-26-4	One 20 ft. span on piles.
Creek	7-9-28-4	Repairs.
Creek	33-13-29-4	One 20 ft. span on piles.
Creek	33-13-29-4	One 20 ft. span on piles.
Creek	27-13-29-4	One 20 ft. span on piles.
Creek	29-26-3-5	One 12 ft. span on piles.
Creek	13/14-33-7-4	One 16 ft. span on frame bents.
Creek	N. 32-30-3-4	One 20 ft. span on piles.
Creek	24/25-31-3-4	One 20 ft. span on piles.
Coulee	19/24-32-5/6-4	One 16 ft. span on piles.
Creek	13/18-33-6/7-4	One 18 ft. span on frame bents.
Creek	N. 33-34-11-4	One 20 ft. span on frame bents.
Creek	32/33-37-11-4	One 18 ft. span on frame bents.
Creek	3/34-37/38-11-4	One 16 ft. span on frame bents.
Creek	33/4-29/30-3-5	Repairs.
Creek	14/15-31-24-4	One 16 ft. span on piles.
Creek	2/3-31-24-4	One 16 ft. span on piles.
Creek	2-29-20-4	One 16 ft. span on piles.
Creek	10-29-20-4	One 20 ft. span on piles.
Creek	10-29-20-4	One 20 ft. span on piles.
Creek	9-29-20-4	Two 20 ft. spans on piles.
Creek	9-29-20-4	One 20 ft. span on piles.
Creek	3-29-20-4	Two 20 ft. spans on piles.
Creek	3-29-20-4	Two 20 ft. spans on piles.
Creek	7-29-20-4	One 20 ft. span on piles.
Creek	34-52-24-4	Repairs.
Creek	34-51-25-4	Repairs.
Creek	3-51-25-5	Repairs.
Creek	8/9-52-23-4	Repairs.
Creek	24/25-51-25-4	Repairs.
Coulee	5/6-53-23-4	Repairs.
Creek	2-53-22-4	One 18 ft. span on piles.
Creek	11-52-21-4	One 20 ft. span on piles.
Creek	22/23-75-15-5	Two 20 ft. spans on piles.
Coulee	7-73-5-5	Ten 20 ft. pile spans.
Creek	7-72-9-5	One 20 ft. span on abutments.
Creek	18/19-72-9-5	One 20 ft. span on abutments.
Creek	7-78-16-5	One 16 ft. span on abutments.
Creek	7-78-16-5	One 16 ft. span on abutments.
Creek	26/27-29-19-4	One 18 ft. span on piles.
Creek	22/23-30-17-4	One 16 ft. span on frame bent.
Creek	14/15-30-17-4	One 16 ft. span on frame bent.
Creek	22/23-30-17-4	One 16 ft. span on frame bent.
Creek	35/36-30-13-4	One 16 ft. span on frame bent.
Creek	26/27-28-12-4	One 16 ft. span on frame bent.
Creek	22/27-28-12-4	One 16 ft. span on frame bent.
Creek	22/23-28-12-4	Two 16 ft. spans on frame bents.
Creek	2/3-28-12-4	One 16 ft. span on frame bents.
Creek	28/33-36-26-4	One 16 ft. span on piles.
Creek	19/20-36-27-4	One 18 ft. span on piles.
Creek	3/34-38/39-1-5	Repairs.
Creek	13/14-41-24-4	One 20 ft. span on piles.
Creek	E/12-41-27-4	Repairs.
Creek	R.L. 12/13-54-3-5	Repairs.
Creek	7/12-53-5/6-5	One 16 ft. span on abutments.
Creek	12-53-4-5	One 16 ft. span on abutments.
Creek	28-49-26-4	One 18 ft. span on piles.
Creek	E. 22-49-25-4	One 20 ft. span on piles.

STREAM	LOCATION	REMARKS
Creek	N. 22-49-25-4	Two 20 ft. spans on piles.
Creek	9/16-50-24-4	Repairs.
Creek	28/29-49-25-4	One 18 ft. span on piles.
Creek	8/17-50-24-4	Repairs.
Creek	19/30-49-1-5	One 16 ft. span on piles.
Creek	19/30-49-1-5	One 16 ft. span on piles.
Creek	33/34-49-25-4	One 18 ft. span on piles.
Creek	N. 34-49-2-5	One 18 ft. span on piles.
Creek	N. 33-49-2-5	One 18 ft. span on piles.
Creek	4/5-50-2-5	One 18 ft. span on piles.
Creek	24/25-49-2-5	One 18 ft. span on piles.
Creek	N. 29-49-27-4	One 18 ft. span on piles.
Creek	22/23-48-26-4	One 18 ft. span on piles.
Creek	N. 20-48-26-4	One 18 ft. span on piles.
Creek	9/10-49-25-4	One 16 ft. log bridge.
Creek	29/30-49-2-5	Two 18 ft. spans on piles.
Creek	25/26-49-28-4	One 16 ft. span on piles.
Creek	E. 30-49-1-5	One 18 ft. span on piles.
Coulee	1/2-9-22-4	Large concrete culvert.
Creek	21/22-18-22-4	One 20 ft. span on piles.
Creek	17-8-25-4	Repairs.
Coulee	15/16-10-24-4	Repairs.
Creek	8-8-25-4	Repairs.
Coulee	7/8-8-25-4	Repairs.
Creek	N. 32-6-25-4	Repairs.
Coulee	N. 36-7-26-4	One 16 ft. span on piles.
Creek	29/30-7-25-4	One 16 ft. span on frame bents.
Creek	19-11-5-4	Repairs.
Creek	N. E. 32-21-25-4	One 16 ft. span on piles.
Creek	S. E. 32-21-25-4	Three 20 ft. spans on piles.
Creek	W. 12-34-28-4	Repairs.
Creek	23/24-33-1-5	One 18 ft. span on frame bents
Creek	1/6-33-1/2-5	One 12 ft. span on frame bents
Creek	32/33-34-26-4	One 18 ft. span on frame bents
Creek	W. 6-74-5-6	One 34 ft. log bridge.
Creek	36-82-23-5	One 16 ft. log bridge.
Creek	1/36-59/60-3-5	One 20 ft. log bridge.
Creek	5-58-2-5	One 18 ft. span on piles.
Creek	31/36-56-1/2-5	One 16 ft. log bridge.
Creek	35-57-3-5	One 18 ft. span on piles.
Creek	35-57-3-5	One 18 ft. span on piles.
Creek	36-59-25-4	One 16 ft. span on piles.
Creek	9/10-57-3-5	One 16 ft. span on piles.
Creek	35/36-56-3-5	One 20 ft. log bridge.
Creek	26/27-56-3-5	One 16 ft. log bridge.
Creek	19/30-7-1-5	Grading.
Coulee	27-4-30-4	Two 20 ft. spans on piles.
Coulee	N. 31-4-28-4	Subway.
Coulee	W. 31-5-28-4	One 12 ft. span on frame bents
Coulee	W. 31-5-28-4	One 12 ft. span on frame bents
Creek	4-5-29-4	One 12 ft. span on piles.
Creek	7/18-6-29-4	One 20 ft. span on frame bents
Creek	11/14-43-22-4	Repairs.
Creek	W. 12-42-25-4	Repairs.
Creek	17/18-42-25-4	Repairs.
Creek	33-42-23-4	Repairs.
Creek	33/34-43-2-5	Driving Piles for 16 ft. spans.
Creek	36-44-26-4	One 16 ft. span on piles.
Creek	7/18-44-25-4	One 20 ft. span on piles.
Creek	W. 6-44-25-4	One 16 ft. span on piles.
Creek	W. 6-44-25-4	One 16 ft. span on piles.
Creek	N. E. 31-44-25-4	One 20 ft. span on piles.
Creek	19/20-43-27-4	Two 20 ft. spans on piles.
Creek	4/5-44-27-4	Two 16 ft. spans on piles.

STREAM	LOCATION	REMARKS
Creek	26-42-23-4	One 20 ft. span on frame bents
Creek	26-42-23-4	Subway.
Creek	15/22-38-27-4	Repairs.
Coulee	31/32-37-26-4	Repairs.
Creek	27/28-37-27-4	Repairs.
Creek	2/35-37/38-26-4	Repairs.
Creek	19/30-37-23-4	One 18 ft. span on piles.
Creek	11/14-37-27-4	One 16 ft. span on piles.
Creek	26-37-24-4	One 18 ft. span on piles.
Creek	N. 32-37-23-4	One 16 ft. span on piles.
Creek	21/22-39-7-5	One 16 ft. span on piles.
Creek	4-39-27-4	One 12 ft. span on frame bents
Creek	W. 6-46-13-4	Grading.
Creek	11/14-46-14-4	One 12 ft. span on frame bents
Creek	11/12-46-14-4	One 16 ft. span on frame bents
Creek	24/25-57-25-4	One 20 ft. span on piles.
Creek	2/3-55-26-4	Repairs.
Creek	35-37-14-4	Repairs.
Creek	N. 32-35-15-4	One 20 ft. span on piles.
Creek	32/33-35-15-4	One 20 ft. span on piles.
Creek	21/28-35-15-4	One 20 ft. span on piles.
Creek	31-52-27-4	Repairs.
Creek	9/16-53-2-5	One 20 ft. span on piles.
Creek	10/11-53-3-5	One 18 ft. span on piles.
Creek	1/36-52/53-28-4	One 16 ft. span on frame bents
Creek	N. 33-52-27-4	One 14 ft. span on frame bents
Creek	26-54-23-4	Repairs.
Creek	23/26-63-23-4	One 16 ft. span on abutments.
Coulee	6-10-7-4	Repairs.
Creek	30-15-16-4	One 16 ft. span on piles.
Creek	6-55-18-4	Repairs.
Creek	4/5-55-17-4	One 16 ft. span on piles.
Creek	27/28-55-17-4	One 16 ft. span on piles.
Creek	N. 34-55-21-4	One 16 ft. span on piles.
Creek	12/13-56-21-4	One 16 ft. span on piles.
Coulee	1/36-5/6-17-4	Repairs.
Creek	15-1-11-4	One 20 ft. span on piles.
Creek	N. 34-1-14-4	One 18 ft. span on piles.
Coulee	20/21-4-18-4	One 18 ft. span on piles.
Coulee	6-3-15-4	One 18 ft. span on piles.
Creek	29/30-46-25-4	Repairs.
Creek	27/28-46-26-4	Repairs.
Creek	E. 12-46-23-4	One 16 ft. span on piles.
Creek	11-47-3-5	Two 20 ft. spans on frame bents.
Creek	15/16-47-3-5	Two 20 ft. spans on frame bents.
Creek	19-46-2-5	One 20 ft. span on frame bents
Creek	1/2-46-26-4	One 16 ft. span on piles.
Creek	W. 30-46-25-4	Two 18 ft. spans on piles.
Creek	13-59-16-4	One 20 ft. span on piles.
Creek	33/34-59-16-4	One 20 ft. span on piles.
Coal Creek	24-26-5-5	Reflooring.
Carrot Creek	S. E. 30-53-13-5	One 40 ft. truss bridge.
Carrot Creek	28/33-53-13-5	Repairs.
Critchley Creek	13-74-17-5	One 20 ft. span on piles.
Cash Creek	25/36-49-28-4	Two 20 ft. spans on piles.
Clearwater River	9/10-39-7-5	One 125 ft. and one 80 ft. steel spans on pile sub-structure and one 20 ft. pile bent approach.
Carrot Creek	12/13-54-26-4	Repairs.
Cache Creek	21/28-64-20-4	One 30 ft. log bridge.
Cache Creek	21/28-64-20-4	One 30 ft. log bridge.
Chin Coulee	5/6-10-18-4	One 20 ft. span on piles.

STREAM	LOCATION	REMARKS
Coal Lake Creek	35/36-46-23-4	Repairs.
Critchley Creek	18-74-16-5	Two 20 ft. spans on piles.
Dried Meat Creek	15/16-45-19-4	Repairs.
Dried Meat Creek	9/16-45-19-4	One 16 ft. span on piles.
Dried Meat Creek	25/36-46-18-4	One 16 ft. span on piles.
Dog Pound Creek	24-28-5-5	One 30 ft. log bridge.
Dog Pound Creek	21/28-32-3-5	Repairs.
Dog Pound Creek	15-22-30-3-5	Painting.
Dog Pound Creek	14-31-3-5	Repairs.
Dog Pound Creek	3/34-31/32-3-5	Painting.
Dog Pound Creek	10/15-32-3-5	Painting.
Dead Fish Creek	21/28-23-13-4	One 20 ft. span on frame bents
Dickson Creek	14/15-36-2-5	One 20 ft. span on piles.
Dickson Creek	1/6-36-2/3-5	One 20 ft. span on piles.
Ditch	4-41-22-4	One 20 ft. and two 12 ft. spans on piles.
Diversion	7-41-21-4	Subway.
Dog Pound Creek	S. 4-33-3-5	Repairs.
Dry Fork Creek	W. 18-5-28-4	Three 20 ft. spans on piles.
Dry Fork Creek	36-4-30-4	One 20 ft. span on piles.
Diversion	4-5-29-4	Subway.
Deep Creek	19/30-58-23-4	Repairs.
Deep Creek	31/32-58-23-4	One 18 ft. span on piles.
Deep Creek	16-55-21-4	One 20 ft. span on piles.
Deep Creek	14/15-55-21-4	One 16 ft. span on piles.
Deep Creek	36-54-21-4	One 20 ft. span on piles.
Deep Creek	13/18-56-20/21-4	One 16 ft. span on piles.
Diversion	31-43-4-4	Subway.
Elbow River	1/5-24-2-5	Painting.
Eagle Creek	7/18-35-1-5	Repairs.
Ellis Creek	21-35-26-4	One 18 ft. span on piles.
Elbow River	At Weazel Hd. Crossing	Painting.
Eagle Creek	8/17-34-1-5	One 20 ft. span on piles.
Eagle Creek	24/25-34-4-5	One 20 ft. span on piles.
Egg Creek	7/8-57-16-4	One 20 ft. span on piles.
Fish Creek	5/31-2/3-26-4	Repairs.
Fallen Timber Creek	33/4-30/31-5-5	Painting.
Fulton Creek	N. 36-52-24-4	Repairs.
Fulton Creek	25/26-52-24-4	Repairs.
Foren Creek	20/21-41-25-4	One 18 ft. span on piles.
Frog Creek	22/23-55-2-5	Repairs.
Fish Creek	4-23-1-5	Painting.
Ghost Pine Creek	9-31-22-4	Repairs.
Goose Creek	R. L. 9, Lac St. Anne.	Repairs.
Gros Ventre Creek	8/9-10-4-4	Four 20 ft. spans on piles.
Ghost Pine Creek	1/36-32/33-23-4	Repairs.
Griffin Creek	32/33-81-25-4	Repairs.
Horse Hills Creek	8-54-23-4	Repairs.
Hangstone Creek	36-88-10-4	Repairs.
Horse Creek	8-26-4-5	Repairs.
Heart River	7-78-16-5	Two 16 ft. spans on piles.
High River	6-19-28-4	One 175 ft. steel span on concrete abutments.
High River	25/36-17-2-5	Repairs.
High River	7-19-28-4	Repairs to dam.
Haynes Creek	4/5-39-23-4	Repairs.
Hay Coulee	3/4-8-26-4	Repairs.
High River	17-20-28-4	Painting.
High River	16-21-28-4	Painting.
Heart River	At Peace R. Crossing.	Repairs.
Hastings Creek	19/24-51-18/19-4	Three 20 ft. spans on piles.
Hastings Creek	15/16-51-19-4	One 20 ft. span on piles.
Highland Creek	3/4-45-2-5	One 20 ft. span on piles.
Heart River	7-78-16-5	50 ft. truss and three 20 ft. spans on piles.

STREAM	LOCATION	REMARKS
Heart River	W. 36-75-16-5	Repairs.
Irish Creek	E. 1-54-4-4	One 16 ft. span on frame bents
Iron Creek	14/15-43-10-4	Repairs.
Iron Creek	17-43-9-4	Two 20 ft. spans on piles.
Iron Creek	16/17-45-13-4	Five 18 ft. spans on piles.
Jumping Pound Creek	13-25-5-5	Painting.
Jumping Pound Creek	30-24-4-5	Repairs.
January Creek	16-54-14-5	One 20 ft. bridge on abutments.
Jim Desjarlais Creek	36-82-23-5	Repairs.
Kipp Coulee	19-5-19-4	Repairs.
Kipp Coulee	20/21-5-19-4	Repairs.
Kipp Coulee	25/26-5-20-4	Two 20 ft. spans on piles.
Knee Hill Creek	12/13-31-26-4	Repairs.
Knee Hill Creek	23/26-31-26-4	Repairs.
Kipp Coulee	13/14-5-9-4	Three 20 ft. spans on piles.
Kipp Coulee	3-6-10-4	Two 20 ft. spans on piles.
Ketchum Creek	8/9-4-5-4	One 20 ft. span on piles.
Knee Hill Creek	4-33-26-4	Repairs.
Knee Hill Creek	6/31-33/34-26-4	Repairs.
Knee Hill Creek	4/33-31/32-26-4	Repairs.
Knee Hill Creek	20/29-33-26-4	Repairs.
Knee Hill Creek	12/7-34-26/27-4	Repairs.
Knee Hill Creek	12/13-34-27-4	Repairs.
Katchemut Creek	7/12-51-18/19-4	Three 20 ft. spans on piles.
Lee's Creek	11-2-27-4	Repairs.
Lee's Creek	At Cardston	Repairs.
Little Red Deer River	7-30-4-5	Repairs.
Lone Pine Creek	17/20-31-27-4	Repairs.
Little Red Deer River	33-32-4-5	Repairs.
Little Red Deer River	17-31-4-5	Painting.
Little Red Deer River	4/33-31/32-4-5	Painting.
Lone Pine Creek	12/13-31-27-4	Repairs.
Lone Pine Creek	N. 36-30-1-5	One 20 ft. span on piles.
Lesser Slave Lake	At Grouard	Completing trestle and draw-bridge.
Lesser Slave River	At Sawridge	215 ft. of pile trestle.
Little Bow River	32/33-17-27-4	Three 20 ft. spans on piles.
Little Red Deer River	19/30-31-1-5	Repairs.
Little Red Deer River	9/16-35-2-5	Repairs.
Lobstick River	30-53-7-5	50 ft. truss and four 20 ft. spans on piles.
Little Whitemud Creek	S. 2-49-26-4	Repairs.
Little Bow River	32-13-23-4	Repairs.
Little Bow River	17-16-26-4	Repairs.
Little Bow River	25-15-26-4	Four 20 ft. spans on piles.
Lone Pine Creek	5/32-32/33-28-4	Two 20 ft. spans on piles.
Lone Pine Creek	20/29-32-28-4	Repairs.
Little Red Deer River	5/32-34/35-3-5	Repairs.
Little Red Deer River	16-33-3-5	Three 20 ft. spans on piles.
Limestone Creek	7/18-57-16-4	One 16 ft. span on piles.
Little Stone Creek	12/13-46-27-4	Repairs.
Little Bow River	10-11-19-4	Repairs.
Meeting Creek	20/21-43-20-4	Two 16 ft. spans on piles.
Middle Coulee	13/14-5-20-4	One 20 ft. span on piles.
Mill Creek	36-51-23-4	Repairs.
Mill Creek	36-51-23-4	One 10 ft. span on piles.
Muskeg Creek	12-54-17-5	30 ft. truss and three 20 ft. spans on piles.
Muskeg Creek	10-54-17-5	30 ft. truss and two 20 ft. spans on piles.
Moose River	On L. S. L. Trail	Repairs.
Michichi Creek	22-29-19-4	One 18 ft. span on piles.
Michichi Creek	32-29-19-4	One 18 ft. span on piles.
Medicine River	26-36-2-5	Repairs.

STREAM	LOCATION	REMARKS
Medicine River	7-36-1-5	Repairs.
Medicine River	20-40-3-5	Painting.
Medicine River	N. 36-40-4-5	60 ft. truss and two 18 ft. spans on piles.
Medicine River	23/26-41-4-5	30 ft. truss and two 16 ft. spans on piles.
Mackay Creek	27-10-1-4	Three 20 ft. spans on piles.
Mosquito Creek	8/9-15-26-4	30 ft. queen truss.
Mosquito Creek	22-16-28-4	Three 20 ft. spans on piles.
McAllister Creek	R. L. 13-82-23-5	Repairs.
Medicine River	3/34-38/39-3-5	Painting.
Milk River	21/22-2-16-4	135 ft. steel span on concrete abutments.
Manyberries Creek	31/36-4-6/7-4	One 20 ft. span on piles.
N. Saskatchewan River	At Fort Saskatchewan	Repairs.
Nine Mile Coulee	22/27-6-21-4	Grading.
Norris Creek	5/32-52/53-18-4	Two 20 ft. spans on piles.
Oldman Creek	25-53-23-4	Repairs.
Oldman River	At Macleod	Bank protection.
Oldman River	10-9-26-4	Repairs.
Oldman River	6/1-10-23/24-4	Repairs.
Oldman River	At Macleod	Repairs.
Oldman River	At Bocket	Repairs.
Oldman River	At Hillcrest	One 60 ft. truss.
Pine Creek	6-66-20-4	Repairs.
Point aux Pins Creek	E. 36-53-23-4	Repairs.
Point aux Pins Creek	27/28-53-22-4	Repairs.
Point aux Pins Creek	28/29-53-22-4	One 20 ft. span on piles.
Point aux Pins Creek	22/27-53-22-4	Two 18 ft. spans on piles.
Prairie River	11-74-16-5	Repairs.
Parlby Creek	N. 31-40-23-4	Repairs.
Parlby Creek	29-40-22-4	Repairs.
Parlby Creek	E. 36-40-25-4	Repairs.
Parlby Creek	24-41-24-4	One 20 ft. span on piles.
Pigami Coulee	30-10-21-4	Repairs.
Paddle River	15-59-3-5	Repairs.
Paddle River	11/12-59-4-5	Two 40 ft. trusses.
Paddle River	13/14-59-3-5	Two 40 ft. trusses.
Pembina River	At Belvedere	Repairs.
Pincher Creek	7-7-28-4	80 ft. steel on concrete abutments.
Paintearth Creek	7/8-40-16-4	One 20 ft. span on piles.
Pot Hole Coulee	7/18-6-21-4	Repairs.
Point aux Pins Creek	13/14-54-23-4	Repairs.
Pipestone Creek	8/9-47-23-4	Repairs.
Pigeon Creek	7/18-45-27-4	Repairs.
Pigeon Creek	7/8-45-27-4	Three 20 ft. spans on frame bents.
Pipestone Creek	3/4-47-23-4	Three 20 ft. spans on piles.
Ribstone Creek	21/22-38-8-4	One 20 ft. span on frame bents
Rosebud Creek	17-31-1-5	Three 20 ft. spans on piles.
Rosebud Creek	15-31-2-5	Repairs.
Rosebud Creek	9/10-31-1-5	Repairs.
Rosebud Creek	12/13-28-27-4	Three 20 ft. spans on piles.
Rosebud Creek	10-27-22-4	Three 20 ft. spans on piles.
Rosebud Creek	14/15-27-24-4	Three 20 ft. spans on piles.
Red Deer River	At Drumheller	Three 150 ft. steel spans on concrete piers and abutments.
Red Deer River	6-36-28-4	Repairs.
Red Deer River	8-35-3-5	Repairs.
Raven River	28/29-35-3-5	Painting.
Red Deer River	5/32-36/37-28-4	Repairs.
Rainy Creek	4/5-40-1-5	Repairs.
Rainy Creek	24-40-2-5	One 16 ft. span on piles.

STREAM	LOCATION	REMARKS
Red Deer River	36-33-5-5	Painting.
Red Deer River	2-33-5-5	Painting.
Raven River	14-34-5-5	Painting.
Rat Creek	7/18-74-8-6	Two 16 ft. spans on frame bents.
Red Deer River	At Red Deer	Repairs.
Red Deer River	At Content	Repairs.
Ribstone Creek	11/14-41-6-4	One 20 ft. span on piles.
Redwater River	28/29-58-25-4	Repairs.
Red Willow Creek	9/16-41-17-4	Two 16 ft. spans on piles.
Red Willow Creek	19/20-40-17-4	Two 20 ft. spans on piles.
Ravine	21/22-52-25-4	Repairs.
Ravine	22-52-25-4	Repairs.
Redwater River	11/14-59-24-4	50 ft. truss.
Redwater River	28/29-57-21-4	Three 20 ft. spans on piles.
Redwater River	15/16-58-22-4	Repairs.
Redwater River	10/11-58-22-4	Repairs.
Redwater River	20/21-59-24-4	Repairs.
Redwater River	6/31-57/58-21-4	Three 20 ft. spans on piles.
Redwater River	19/30-58-22-4	Repairs.
Redwater River	15-57-21-4	50 ft. truss.
Ribstone Creek	25/26-43-4-4	One 20 ft. span on piles.
Red Creek	18-1-15-4	One 20 ft. span on piles.
Stopping Creek	19-66-22-4	One 20 ft. span on abutments.
Spruce Coulee	N. 4-46-21-4	Repairs.
Spring Creek	20/29-45-19-4	Repairs.
Spring Creek	N. W. 20-45-19-4	One 20 ft. span on piles.
Stony Creek	2-47-20-4	Five 18 ft. spans on piles.
St. Mary's River	1-2-25-4	Refloored.
Snake Creek	E. 24-2-25-4	Repairs.
Sounding Creek	N. 31-31-2-4	Two 20 ft. spans on piles.
Sounding Creek	1/2-34-6-4	One 20 ft. span on piles.
Spillway	15-26-23-4	One 20 ft. span on piles.
Serviceberry Creek	16-26-23-4	Two 20 ft. spans on piles.
Serviceberry Creek	22/23-26-23-4	One 20 ft. span on frame bents
Swamp Creek	At Sawridge	Repairs.
Sturgeon River	2-55-1-5	Five 20 ft. spans on piles.
Strawberry Creek	36-49-2-5	Painting.
Strawberry Creek	N. 32-48-3-5	One 18 ft. span on piles.
Strawberry Creek	N. 34-48-3-5	One 18 ft. span on piles.
Six Mile Coulee	16-8-21-4	Rental.
Snake Creek	20/21-17-22-4	One 20 ft. span on piles.
Spring Creek	15-20-1-5	Repairs.
Spring Creek	18/19-20-1-5	One 18 ft. span on piles.
Sheep Creek	At Okotoks	Painting.
Sheep Creek	7/12-21-2/3-5	Painting.
Sheep Creek	8/17-20-2-5	Repairs.
Swamp Creek	28-77-5-6	Repairs.
Spirit River	17-78-5-6	Repairs.
Strong Creek	5-83-22-5	One 16 ft. span on piles.
Spruce Creek	6/7-74-6-6	Three 20 ft. spans on abutments.
Sturgeon River	20/29-54-26-4	Repairs.
Sturgeon River	At St. Albert	90 ft. steel on concrete abutments.
Sturgeon River	16-54-26-4	Repairs.
Sturgeon River	Below St. Albert	60 ft. steel span on piles.
Sucker Creek	36/6-38/39-21/22-4	Repairs.
Sturgeon River	4-56-23-4	80 ft. steel span on concrete abutments.
Sturgeon River	10-55-24-4	Painting.
Sturgeon River	8/9-55-24-4	Painting.
Sturgeon River	11/14-55-24-4	Painting.
Sturgeon River	25-55-24-4	Repairs.

STREAM	LOCATION	REMARKS
Sturgeon River	14-56-23-4	30 ft. steel span on concrete abutments.
Sucker Creek	23-58-20-4	Repairs.
Sucker Creek	26/27-58-20-4	Repairs.
Sturgeon River	E. 22-55-22-4	Repairs.
Sucker Creek	22/23-58-20-4	One 18 ft. span on abutments.
Sucker Creek	5-59-20-4	One 20 ft. span on piles.
Six Mile Coulee	1/16-6-20-4	Repairs.
Six Mile Coulee	21/22-6-20-4	Repairs.
Spring Creek	7/8-58-15-4	One 16 ft. span on piles.
Spring Creek	16/17-54-14-4	One 20 ft. span on piles.
Smoky Lake Creek	W. 26-58-17-4	One 16 ft. span on piles.
Trout Creek	3-12-24-4	Three 20 ft. spans on piles.
Tongue Flag Creek	14/15-19-29-4	Repairs.
Tongue Flag Creek	24-19-29-4	Three 20 ft. spans on piles.
Tindstall Creek	20/29-36-1-5	One 20 ft. span on piles.
Terrell Creek	34/35-9-7-4	One 16 ft. span on piles.
Ten Mile Creek	13/14-32-29-4	One 16 ft. span on piles.
Ten Mile Creek	24/25-33-1-5	One 10 ft. span on frame bents.
Three Hills Creek	1/36-32/33-25-4	Repairs.
Three Hills Creek	20/29-34-25-4	Repairs.
Three Hills Creek	12/13-33-25-4	Repairs.
Trail Creek	7/18-34-2-5	One 20 ft. span on piles.
Todd Creek	29-9-2-5	One 20 ft. span on piles.
Tail Creek	2/34-38/39-22-4	Repairs.
Twin Lake	13-60-24-4	Repairs.
Tawatina River	10/15-65-22-4	Repairs.
Tween Creek	14/15-45-26-4	One 20 ft. span on piles.
Vermilion River	4/5-53-14-4	Three 20 ft. spans on piles.
Vermilion River	12/13-50-15-4	Three 16 ft. spans on piles.
Vermilion River	6-51-8-4	Repairs.
Vermilion River	32-50-6-4	60 ft. steel span on concrete abutments.
Vermilion River	1/6-51-8/9-4	60 ft. steel span on concrete abutments.
Verdigris Coulee	32/33-4-18-4	One 16 ft. span on piles.
Verdigris Coulee	32/33-4-18-4	One 16 ft. span on piles.
Vermilion River	26/27-54-12-4	Four 20 ft. spans on piles.
Waterton River	31-5-26-4	Repairs.
West Prairie River	14-74-17-5	60 ft. truss and two 20 ft. spans on piles.
Wabiscaw Lake	At Narrows	Three 20 ft. spans on cribs.
Whitemud Creek	30/31-49-25-4	Repairs.
Whitemud Creek	20/29-50-25-4	Repairs.
Weed Creek	26/35-49-28-4	Painting.
Whitemud Creek	32/33-50-25-4	Repairs.
Weed Creek	24-49-1-5	Painting.
Weed Creek	10/15-49-1-5	Repairs.
Weed Creek	14/15-49-1-5	Two 18 ft. spans on piles.
Willow Creek	5-14-29-4	80 ft. steel span on piles.
Wolf Creek	10-42-26-4	Repairs.
Wolf Creek	27-42-26-4	Repairs.
Wolf Creek	3/34-41/42-26-4	Two 16 ft. spans on piles.
Wolf Creek	S. 5-42-26-4	Repairs.
Waskasoo Creek	9/16-38-27-4	Three 20 ft. spans on piles.
Wall Creek	6/1-38-19/20-4	Repairs.
Washatinaw Creek	21/28-59-19-4	Two 16 ft. spans on piles.
Washatinaw Creek	32/33-59-19-4	One 20 ft. span on piles.
Waskanagan Creek	24/19-51-18/19-4	Two 16 ft. spans on piles.
Whiteearth Creek	22/23-59-16-4	Three 18 ft. spans on piles.
Whiteearth Creek	32-59-17-4	Two 20 ft. spans on piles.

FERRIES

The total number of ferries operated by this department in 1914 was 66.

New scows were built for several ferries and a number of new ferries were built and installed during the year.

New scows were built for the following locations:

1. Peace River at Peace River Crossing.
2. Lac Ste. Anne at the Narrows.
3. North Saskatchewan River north of Lamont.
4. Pembina River at Entwistle.
5. Baptiste River on Edson Trail.
6. North Saskatchewan at Hopkins' Crossing.

New ferries were built and installed at the following locations:

1. North Saskatchewan north of Manville.
2. Red Deer River north of Jenner.
3. Macleod River north of Rosevear.
4. Red Deer River north of Buffalo.
5. Bow River south of Bassano.
6. North Saskatchewan at Heinsburg.
7. Athabasca River at Hinton (purchased).

In addition to the above the following scows were moved to new locations:

Pembina River from Entwistle to Matthews' Crossing.
Belly River from Coaldale to Grand Forks.
Red Deer River from Drumheller to Emerson's Ford.

The following is a complete list of the ferries in the Province of Alberta at the close of 1914:

1. Red Deer River at Steerford.
2. North Saskatchewan River at Brosseau.
3. North Saskatchewan River at Desjarlais.
4. Athabasca River at Holmes' Crossing.
5. Bow River south of Cluny.
6. Red Deer River at Dorothy.
7. Old Man River at Summerview.
8. North Saskatchewan at Victoria.
9. North Saskatchewan at Big Island.
10. Red Deer River at Garrington.
11. North Saskatchewan River at Fourth Meridian.
12. Athabasca River at Athabasca Landing.
13. Red Deer River at Trochu.
14. Pembina River at 23-60-1-5.
15. North Saskatchewan River at Shandro.
16. Pembina River at Wild Horse.
17. North Saskatchewan River at Hopkins' Crossing.
18. Red Deer River at Fieldholm.
19. North Saskatchewan River at Rocky Mountain House.
20. Peace River at Peace River Crossing.
21. Lac Ste. Anne at the Narrows.
22. North Saskatchewan north of Kitscoty.
23. North Saskatchewan north of Lamont.

24. Pembina River at Sunniebend.
25. Pembina River at 26-56-7-5.
26. North Saskatchewan River at Lamora's Landing.
27. Bow River south of Strathmore.
28. Peace River at Dunvegan.
29. North Saskatchewan north of Manville.
30. South Saskatchewan River at Bow Island.
31. Pembina River at Entwistle.
32. Red Deer River at Carbon.
33. Red Deer River at Steeveville.
34. Big Smoky River on the Edson Trail.
35. Little Slave River at Sawridge.
36. Bow River at 27/28-15-16-4.
37. Beaver River at Cold Lake.
38. Bow River at Rocky Buttes.
39. Red Deer River west of Munson.
40. Red Deer River at Finnegan's Crossing.
41. Pembina River at Matthews' Crossing.
42. North Saskatchewan River at Moose Telegraph Station.
43. Pembina River at Lunnford.
44. Athabasca River on Edson Trail.
45. Belly River near Grand Forks.
46. Baptiste River on Edson Trail.
47. Little Smoky River on Edson Trail.
48. Bow River at Eyremore.
49. McLeod River north of Thornton.
50. Red Deer River at Dead Lodge Canyon.
51. Bow River at Kinnondale.
52. Beaver River at Tp. 63-4/5-4.
53. North Saskatchewan River north of Bruderheim.
54. Pembina River west of Hazelbluff.
55. Pembina River at Manola.
56. McLeod River north of Peers.
57. Red Deer River north of Jenner.
58. Red Deer River at Gregory's Ford.
59. North Saskatchewan River at Elk Point.
60. Red Deer River at Emerson's Ford.
61. Red Deer River at Empress.
62. Pembina River at Cosmo.
63. Red Deer River west of Morrin.
64. Macleod River north of Rosevear.
65. Athabasca River at Hinton.
66. Red Deer River north of Buffalo.
67. Bow River south of Bassano.
68. North Saskatchewan at Heinsburg.

ORDINARY ROADS, 1914

North and east of 21-25-2-4. Culverts and grading.
 Road east and west of Cappon. Grading.
 South of Tp. 27, Ranges 8 and 9-4. Culverts and grading.
 Road north and south of Oyen. Culverts and grading.
 Road north and south of Manser Siding. Grading.
 Road south from Excel. Grading.
 Road north and south of Benton. Grading.
 Between 22/27-27-9-4. Culverts and grading.
 Road north from Jenner Ferry. Grading.
 Between 19/20-27-9-4. Culverts and grading.
 Road south of Cereal. Grading.
 Road north and south of Excel. Culverts and grading.
 East of 4 to 33, Tps. 25-26 and 27-5-4. Culverts and grading.
 East of 3 to 34, Tps. 24 and 25-5-4. Grading.
 Range line west of 25 and 26-6-4. Grading.
 Range line west of 25 and 26-5-4. Culverts and grading.
 Between 19/20-26-6-4. Grading.

Between 10/11-14/15-25-9-4. Grading.
 Between 4/5-25-8-4. Grading.
 North and south of Acadia Valley. Grading.
 East of 6 to 31-26 and 27-5-4. Grading.
 Road north of Kiltscoty. Culverts and grading.
 Road north of Islay. Culverts and grading.
 Road south of 14 and 15-51-1-4. Grading.
 Road between 16/17-53-1-4. Grading.
 Road north of Tp. 50-2-4. Grading.
 In Section 14-52-4-4. Hauling rock.
 Road north-east from Athabasca Landing. Clearing road.
 Winter road to Lac La Biche. Clearing and grading.
 North of Section 7, 8 and 9, Tp. 66-23-4. Corduroying and brushing.
 South of Section 1, 2, 3 and 4, Tp. 66-22-4. Grading.
 Road east from Athabasca Landing. Brushing and clearing.
 In section 21, 22, 27, 34 and 35, Tp. 66-22-4. Grading.
 East of 2 to 23-66-24-4. Grading.
 South and east 17-67-21-4 and north. Cutting trail.
 Along south of Baptiste Lake. Culverts and clearing.
 North 35-55-12-4. Laying and covering brush.
 Through 6, 7 and 8, Tp. 60-11-4. Grading.
 North of Tp. 67, Range 15 and 16-4. Clearing and grading.
 Road north-west from Therien. Corduroy, culverts and grading.
 Road north from Cork. Clearing and grading.
 Between 33/34-58-10-4. Corduroying and grading.
 Through Lac La Biche Settlement. Clearing and grading.
 Between 25/26-60-12-4. Clearing and grading.
 Between 7/8-59-9-4. Corduroy and culverts.
 Road north-west from Plamondonville. Clearing and grading.
 North 24-60-12-4. Grading.
 North 30-59-11-4. Grading and corduroying.
 North of Tp. 59-9-4. Culverts and grading.
 East of 4, 9 and 16, Tp. 60-15-4. Corduroying and culverts.
 East of 4, 9 and 16, Tp. 60-16-4. Clearing and corduroy.
 Between 21/28-56-10-4. Clearing road.
 Between 26/27-34/35-59-11-4. Clearing road.
 From Lena to Grandin. Clearing and corduroy.
 East of 11 to 35-59-10-4. Clearing and corduroy.
 West of 6-60-16-4. Clearing and grading.
 Road south of Plamondonville. Clearing and grading.
 East of 5 and 8-65-12-4. Clearing road.
 34/35-59-9-4. Grading and corduroy.
 East of 26 and 35-66-14-4. Clearing and corduroy.
 Blackfoot Trail south of Cluny. Grading.
 25/30-31/36-21-20/21-4. Grading.
 31/36-1/6-21 and 22-19/20-4. Grading.
 Road north of Crowfoot. Grading.
 North of Tp. 25-17-4. Culvert and grading.
 13/14-23/24-24/25-17-17-4 and north 19, 20, 21-17-16-4. Grading.
 Brooks to Gregory's Ford. Grading.
 35/36-1/2-23 and 24-18-4. Grading.
 Brooks to Tilley. Grading and culverts.
 Bassano to Brooks. Grading and culverts.
 33/34-27/28-19-20-4. Cutting hill and grading.
 22/27-23/26-19-20-4. Culverts and grading.
 North of Tp. 19-20-4. Culverts and grading.
 South from Ferry, 32-22-14-4. Grading.
 Between 15/16-25-2-5. Cutting hills.
 East from Spilstead. Culverts and grading.
 East from Round Hill. Culverts and grading.
 Taylorville to St. Mary's River Bridge. Grading.
 Cardston to Leavitt. Culverts and grading.
 Road up Lee's Creek to Leavitt. Grading.
 South of 4-2-27-4. Grading.
 In 12-3-28-4. Grading and culverts.
 East of 22-27-34-2-25-4. Grading.
 Between 13/14-5-22-4 and south. Culverts and grading.
 North 13 to 16-2-28-4. Culverts and grading.
 North and west 33-4-23-4. Grading and culverts.

North of Tp. 2-25-4. Grading.
 Between 3/4-3-25-4. Grading.
 23/24-5-22-4. Grading.
 North of 23-2-25-4. Destroying weeds.
 East of 13-2-26-4. Culvert.
 Between 4/33-3/4-24-4. Grading.
 In 2-11-12-13, Tp. 1-25-4. Grading.
 Between 2/3-1-26-4. Culverts.
 North of Tp. 2-24-4. Grading.
 Cardston to Waterton Lake. Grading and culverts.
 Between 32/33-2-25-4 and south. Grading and culverts.
 North of 21 and 22-5-19-4. Grading.
 West of 4 to 28-4-23-4. Grading.
 Between 7/8-3-25-4. Grading.
 Between 28/29-4-23-4 and south. Grading and culverts.
 Between 24/25-2-24-4. Grading.
 Between 16/17-5-21-4. Grading.
 East of Tp. 5-21-4. Grading.
 East of Tp. 5-20-4. Grading.
 East of Tp. 2-24-4. Grading.
 East of Sec. 21-5-19-4. Grading.
 Between Sec. 32/33-5-20-4 and south. Grading and culverts.
 Between 1/2-5-21-4 and south. Grading.
 North of 27 and 28-4-23-4. Grading.
 Road east from Taylorville. Grading and culverts.
 Between 20/21-16/17-4-24-4. Grading.
 Between 23/24-4-24-4. Grading.
 Between 19/20-1-21-4. Grading.
 Between 19/30-1-21-4. Grading.
 Between 24/25-3-28-4. Grading.
 Between 3/4-3-24-4. Grading.
 North of 15-16 and 17-2-27-4. Repairing culverts.
 Between 3/4-9/10-4-24-4. Grading.
 Between 29/33-4/9-Tp. 1 and 2-26-4. Repairing culverts.
 On Sec. 24-3-25-4. Grading.
 Road east from Claresholm. Culverts and grading.
 Road up Oldman River, Tp. 10-2-5. Grading.
 Road west of 6 and 7-9-28-4. Culverts and grading.
 Road up Trout Creek. Culverts and grading.
 Road north of Lunnford. Clearing and corduroy.
 Road south of Mellowdale. Clearing and grading.
 Road east and west of Mellowdale. Clearing and grading.
 Road to Holmes' Crossing. Grading and corduroy.
 Mitford to Dog Pound. Grading.
 From Cochrane up Horse Creek. Grading and culverts.
 Road south of Cochrane. Repairing.
 North of 31-32 and 33, Tp. 25-4-5. Grading.
 Road east and west of Crossfield. Grading and culverts.
 Road between 27/28-28-1-5. Culverts and grading.
 Between 8/17-25-4-5. Culverts and grading.
 North of 20 to 24-27-2-5. Covering culverts.
 North 13 and 14 and east 24, 25 and 36-26-4-5. Ditching.
 North of 13 to 18-28-4-5. Grading.
 Between 14/15-22/23-28-2-5. Grading and culverts.
 North of 19 to 24-28-1-5 and east. Grading.
 Trail up Grand Valley. Grading.
 Between 26/27 and 34/35-28-1-5. Grading and culverts.
 Between 26/27-29-5-5 and south. Grading.
 South and east of 14-28-5-5. Grading.
 East of Tp. 28-29-4. Grading.
 Between 28/29-32/33-27-2-5. Culverts and grading.
 Between 25/26-35/36-29-4-5. Grading.
 Road up Big Hill Creek. Grading and culverts.
 Between 8/9-27-3-5. Grading.
 Nose Creek, Bush Trail. Culverts.
 In Sec. 20-25-4-5. Grading.
 Between 15/16-28-4-5. Grading.
 Road east and west of Bottrell. Grading.
 Road south-east from Consort. Repairs.

Road north from Coronation. Grading and culverts.
 Road north of Tp. 34, Rgs. 7, 8, 9, 10-4. Grading and culverts.
 Road north of 20 and 21-33-1-4. Grading and ditching.
 Road between 9/10-33-1-4. Grading and ditching.
 Road between 14/15-33-1-4. Grading and culverts.
 Road between 32/33-35-6-4. Grading and culverts.
 Road north of Loyalist. Grading and culverts.
 Road north of Veteran. Grading.
 Road between 11/14-36-10-4. Grading.
 Road south from Kerriemuir. Grading and culverts.
 Road east of Carstairs. Grading.
 Road between 9/10-30-2-5. Cutting hill and grading.
 Road south of Tp. 31-5-5. Grading and ditching.
 Road between 21/22-30-23-4. Grading and culverts.
 Road south of Drumheller. Grading.
 Road on Blind line east from Didsbury. Grading and ditching.
 Road west from Drumheller. Grading and culverts.
 Road between 1/2-29-28-4. Grading.
 Road between 1/12-29-1-5. Grading.
 Road east of 1, 12 and 13-32-4-5. Grubbing and grading.
 Road north of 34, 35 and 36-51-25-4. Repairing.
 Between 13/14-51-24-4. Grading.
 North of 25 and 30-53-13-5. Grading and culverts.
 Road south of Peers. Grading and culverts.
 Road south of Carrot Creek. Grading and clearing.
 Road east of 9, 16 and 21-53-13-5. Ditching and grading.
 Road north of 20 and 21-53-13-5. Corduroy and grading.
 Road from Edson to Marlboro. Grading and ditching.
 Road from McLeod Valley to Lake Kathleen. Clearing and grading.
 Road in 21, 28 and 33-54-15-4. Clearing and grading.
 Road from Edson to Carrot Creek and east. Clearing and grading.
 Gleichen-Rosebud Trail. Grading.
 Strathmore south to Bow River. Grading and culverts.
 Gleichen south to Bow River. Grading.
 Road north east of Gleichen. Grading.
 Road north of Tp. 27, Rgs. 23-24 and 25-4. Grading and culverts.
 Road north of 13 and 14-25-27-4. Grading and culverts.
 Road north of Tp. 24, Rg. 22 and 23-4. Grading.
 Road between 2/3-10/11-28-25-4. Grading.
 Road north of 7 to 12-25-22-4. Grading and culverts.
 Road north of 11 and 12-26-27-4. Grading and culverts.
 Road through 15-26-23-4. Culverts.
 Road between 28/29-21-27-4. Grading.
 Baptiste Lake to Moose Portage. Clearing.
 West 23, 28 and 33 and north 21 and 22-75-15-5. Clearing.
 From Big Prairie to High Prairie. Clearing and culverts.
 From Sawridge south. Clearing and grading.
 Between north and south Wabiscaw Lake. Clearing and grading.
 North of 19 to 24-23-13 and 14-4. Culverts and grading.
 North of Tp. 28, Rgs. 11 and 12-4. Culverts and grading.
 East of 6 to 31-29-12-4. Culverts and grading.
 Road from Flowerdale to Richdale. Grading.
 From Cravath Corners south. Grading.
 From Hanna to Richdale. Grading and culverts.
 Road north from Hyland. Grading and culverts.
 Road south from Hyland. Grading and culverts.
 Road north from Gregory's Ford. Grading.
 Road from Cessford to Hutton. Grading.
 Road north from Hutton Ferry. Grading and culverts.
 Road from Nateby to Gregory Ford. Grading.
 Road from Bandora to Coal Mine. Grading.
 Road from Nateby to Park Coal Mine. Grading.
 Road north of Tp. 24-13-4. Grading.
 Road north of Tp. 22-14-4. Grading.
 North of 19 to 24-19-25-4. Grading and culverts.
 Road up Pekisko Creek. Repairing culverts.
 Between 2/3-18-2-5 and north. Grading and culverts.
 Between 11/12-17-2-5. Grading and culverts.
 Between 10/15-37-1-5. Grading and covering brush.

Between 28/29-35-26-4. Grading and culverts.
 Between 11/12 and 13/14-41-23-4. Grading.
 Between 12/13-39-25-4. Ditching and grading.
 North of 24-39-26-4. Grading and culverts.
 Between 7/8-40-26-4. Grading.
 North of 7-41-1-5. Grading.
 South of 2-41-27-4. Grading.
 Lacombe to Chigwell and Lee's. Grading.
 Through 14-40-2-5. Grading.
 East of Tp. 39-26-4. Grading and culverts.
 North of 12-41-26-4. Grading and culverts.
 East of 13, 24 and 25-40-5/6-4. Grading.
 Between 14/15-40-26-4. Grading.
 Between 3/4-41-26-4. Grading and culverts.
 South of 10-41-27-4. Grading.
 East of 30 and 31-40-2-5. Grading.
 North of 7 and 8-39-23-4. Grading and culverts.
 West of 27-40-3-5. Grading.
 East of 13-40-5/6-5. Grading and culverts.
 Road north from Leslieville. Clearing and grading.
 East of 5 and 8-40-28-4. Grading and culverts.
 Between 25/26-41-27-4. Ditching and grading.
 Wabamun to Lac Ste. Anne. Grading and repairing.
 Lac Ste. Anne to Entwistle. Clearing and grading.
 Between 23/26-55-6-5. Corduroy and grading.
 North of 7 to 12-55-3-5. Grading.
 East of 6 to 31-54-5-4. Corduroy and culverts.
 From Sangudo to Peavine. Repairs.
 East of 9 to 33-56-5-5. Corduroy and culverts.
 North of 7 to 11-54-4-5. Corduroy and culverts.
 East of 6 to 31-56-4-5. Clearing and corduroy.
 Through 20 and 29-53-7-5. Grading.
 Between 23/24-25/26-56-7-5. Corduroy and grading.
 Road east from Whitecourt. Clearing and grading.
 Road south of Mayerthorpe. Corduroy and grading.
 Road north of 19 to 21-57-8-5. Corduroy and grading.
 Hay Lake Trail. Grading.
 Between 1/36-2/35-47/48-25-4. Grading.
 Road east of Millet. Grading and culverts.
 North of 10 and 11-50-26-4. Grading.
 North of 8 and 9-48-24-4. Grading.
 Between 9/16-49-22-4. Ditching and grading.
 West of 18 and 19-49-26-4. Ditching and grading.
 North of 19 to 24-50-25 and 26-4. Clearing and grading.
 Between 9/10-48-25-4. Grading.
 North of Tp. 49-24-4. Grading.
 West of 14-49-26-4. Clearing and grading.
 Between 13/18-50-24/25-4. Grading and culverts.
 Between 21/28-50-23-4. Grading.
 Between 1/2-50-24-4. Grading.
 North of 7, 8 and 9-50-26-4. Clearing and grading.
 Between 22/27-48-25-4. Grading.
 East of 3 to 34-9-22-4. Grading.
 Between Tps. 10, Rgs. 21/22-4. Grading.
 Between 3/4-9-22-4. Grading.
 North of 19 to 24-9-21-4. Grading and culverts.
 Road south of Kipp. Grading.
 Between 17/18 and 19/20-9-21-4. Grading.
 On north-west $\frac{1}{4}$ 31-11-21-4. Grading and culverts.
 On road east from Claresholm. Grading and culverts.
 Road west from Carmangay. Grading and culverts.
 North of 19 to 24-12-22 and 23-4. Grading and culverts.
 North of Tp. 10-22-4. Culvert.
 In 29-13-23-4. Repairing road.
 Blind Line east of Champion. Cutting weeds.
 From Barrhill to Barons. Culverts and grading.
 Road north of 7 to 12-17-19 and 20-4. Grading and culverts.
 Tp. Line north of 16-19 and 20-4. Grading and culverts.
 Between 25/26-12-21-4. Culverts and grading.

Between 21/22-17-20-4. Grading.
 Between 5/6-17-20-4. Grading.
 Between 2/3-10/11-17-20-4. Grading.
 The Macleod-Fishburn Trail. Grading and culverts.
 On 29-9-26-4. Improving road.
 Range line south from Macleod. Repairing culverts.
 Between 7/8-7-25-4. Culverts and grading.
 Between 28/29-32/33-9-27-4. Culverts and grading.
 North of 32 and 33-6-25-4. Culverts and grading.
 Road south from Monarch. Culverts and grading.
 Road north from Staunton. Grading.
 Between 1/2-9-27-4. Grading.
 From Medicine Hat to Chippie Lake. Grading and culverts
 From Medicine Hat to Eagle Butte. Grading.
 Between 25/36-10-1-4. Grading.
 Between 13/18-10-6/7-4. Grading.
 West of Tp. 9 and 10-8-4. Grading.
 Road north of Pashley. Grading.
 Road north of 34-10-3-4. Grading.
 Road between 21/22-33/34-6-10-4. Grading and culverts.
 Road east of 6 to 31, Tp. 5 and 6-8-4. Cutting and filling.
 Road north from Bow Island. Grading.
 Road between 9/10-5-7-4. Grading.
 Road north from Altorado. Grading.
 Road north of 7, Rgs. 6, 7 and 8-4. Grading and culverts.
 Road between 25/26-11-7-4. Grading.
 Road between 14/15-13-4-4. Grading.
 Road between 22/27-8-7-4. Grading.
 Road between 9/16-12/13-4-4. Grading.
 Road between 9/10-15/16-31/32-4-5-4. Grading.
 Road from 9 to 12-2-5-4. Grading.
 Road between 34/35-1-4-4. Grading.
 Road west of 4 to 21-10-3-4. Grading.
 Road between 5/6-10-3-4. Grading.
 Road north of 34-1-4-4. Grading.
 Road between 15/16-6-4-4. Grading.
 Old Milk River Trail in 2-9-4. Grading.
 Road between 22/23-12-3-4. Grading and culverts.
 Road between 33/34-27/28-12-3-4. Grading and culverts.
 From Walsh to Grayburn. Cutting weeds.
 South of Tp. 10, Rgs. 2 and 3-4. Culverts and grading.
 On Range Line south of Irvine, Tp. 8, 9 and 10-2/3-4. Culverts and grading.
 Between 34/35-10-3-4. Grading.
 Norton to Elkwater. Repairs.
 Between 19/30-9-4-4. Culverts and grading.
 Norton to Eagle Butte. Culverts and grading.
 North of 32-10-2-4. Grading.
 Through 21 and 22-7-3-4. Grading.
 Road east of Seven Persons. Grading and culverts.
 Road south from Grayburn. Grading.
 Eagle Butte to Elkwater Lake. Culverts and grading.
 Between 1/2-10-2-4. Grading.
 East of 3 to 22-10-2-4. Culverts and grading.
 Through 1 and 2-11-3-4. Cutting weeds.
 Range Line 9-3/4-4. Grading.
 From Winnifred to Bow Island. Culverts and grading.
 Between 9/10-3/4-33/34-9 and 8-9-4. Grading.
 Between 12/13-9-5-4. Grading.
 Between 34/35-6-7-4 and north. Grading and culverts.
 Road west from Minda. Grading.
 Road west from Manyberries. Culverts and grading.
 East of 10, 15 and 22-3-9-4. Grading and filling.
 Road south from Nemescaw. Culverts and grading.
 Between 33/34-11-9-4. Grading and culverts.
 North of Tp. 8-9-4. Grading and culverts.
 Through 14-7-9-4. Grading.
 Between 3/4-7-5-4 and north. Grading and culverts.

North of 7 to 12-11-8/9-4. Grading and culverts.
 Road south from Seven Persons. Subway and grading.
 East of 6 to 31-11-9-4. Cutting weeds.
 North of Tp. 11, Rgs. 8, 9 and 10-4. Grading.
 North of 7 to 12-12-8-4. Culverts and grading.
 North of 7 to 12-12-2 and 3-4. Culverts and grading.
 Between 21/28-6-8-4. Grading.
 Road south of Etzikon. Culverts and grading.
 South of 2 and 3-7-2-4. Grading.
 West of 3 to 34-7-2-4. Grading.
 Road east from Thelma. Grading and culverts.
 Between 22/27-10-2-4. Grading.
 Road east from Endon. Grading and culverts.
 Between 21/28-11-9-4. Grading.
 Between 21/28-8-9-4. Grading.
 East of 14 to 35-6-7-4. Grading.
 East of 2 to 35-6-8-4. Grading.
 Between 14/15-2-6-4. Grading and culverts.
 Between 24/25 in 26-35-34-6-3-4. Grading.
 Between 3/4-12-10-4. Grading.
 Between 26/27-34/35-6-2-4. Repairing road.
 Between 12/13-8-9-4. Grading.
 Between 9/16-10-2-4. Grading.
 Between 28/29-6-1-4. Grading.
 North of 19 to 24-14-28 and 29-4. Culverts and grading.
 Between 9/10-15-28-4. Repairs.
 West of 25-15-27-4. Grading.
 North of Tp. 14-28-4. Culverts and grading.
 Between 5/6-7/8-15-27-4. Grading.
 Okotoks to Kineham. Culverts and grading.
 Between 24/25 and 25/30-20-3 and 4-5. Repairs.
 Road south from Strathmore Ferry. Grading.
 West of 18 and 19-34-25-4. Grading and repairing.
 West of 18-34-26-4. Grading.
 Between 9/10-34-5-5. Ditching.
 Between 23/24-34-26-4. Grading.
 Between 1/36-2/35-33/34-1-5. Clearing and grading.
 Road west of Huxley. Ditching and grading.
 Between 15/16-32-2-5. Grading.
 West of 3 to 34-33-28-4. Grading slough.
 Between 27/28-33/34-32-1-5. Grading and culverts.
 Road east of Bear Berry. Clearing and grading.
 East of Tp. 33-3-5. Ditching and grading.
 Between 1/2-11/12-34-29-4. Clearing and grading.
 From Spirit River to Pouce Coupe. Clearing.
 From Saskatoon Lake to Beaver Lodge River. Clearing grading.
 From Grand Prairie to Big Smoky Ferry. Clearing and grading.
 West from Griffin Creek. Clearing and culverts.
 Road east of Lunnford. Ditching.
 Between 21/28-57-2-5. Corduroying.
 Road west of Lunnford. Clearing.
 Between 57, Rgs. 1 and 2-5. Corduroying and clearing.
 East of 2 to 35-59-4-5. Corduroying.
 West of 4-33-59-1-5. Repairing.
 Between 7/8-58-3-5. Corduroy and grading.
 East of 4 to 33-58 and 59-3-5. Corduroy and grading.
 Between 11/12-56-2-5. Clearing and grading.
 Between 35/36-57-3-5. Culverts and corduroy.
 East of 5 to 32-60-2-5. Clearing and grading.
 Road west from Lawton. Clearing and culverts.
 Between 32/33-56-1-5. Laying corduroy.
 Road east from Manola. Clearing and grading.
 West of 27 and 34-59-1-5. Clearing and grading.
 East of 6 to 31-59-26-4. Grubbing.
 Range Line south from Brocket. Repairing road.
 South of 4-3-29-4. Grading.
 Ponoka to Battle Lake. Grading and culverts.
 East of Tp. 42-24-4. Grading.

Chesterwold to Ferry Bank. Repairing road.
 North of 33 and 34-42-2-5. Repairing grade.
 North of Tp. 42-27-4. Grading.
 East of 2 to 35-42-28-4. Grading.
 Road west from Ferry Bank. Grading.
 Road west of Tp. 43-27-4. Ditching.
 Road east of Ferry Bank. Grading and culverts.
 North of 32 and 33-43-2-5. Grading.
 Between 27/28-33/34-43-2-5. Grading.
 Road west from Buckhorn. Clearing and culverts.
 Between 19/20-43-27-4. Clearing and grading.
 Between 24/25-43-4-5. Clearing and grading.
 East of 29 and 32-42-25-4. Grading.
 East of 1 and 12-43-24-4. Grading.
 North of 1 to 5-43-23-4. Grading and culverts.
 Between 27/34-42-1-5. Grading.
 West of 25-42-23-4. Grading.
 North of 7 to 12-44-4-5. Ditching and corduroy.
 North of 7 to 12-42-23-24 and 25-4. Clearing and grading.
 Between 16/17-42-23-4. Grading.
 In Sec. 13-42-24-4. Grading.
 Between 32/33-44-26-4. Ditching and culverts.
 West of 31-42-25-4. Culvert.
 East of Tp. 44-28-4. Ditching.
 Between 22/27-42-25-4. Repairing culvert.
 Between 4/5-43-22-4. Grading slough.
 East of Tp. 13-5-4. Grading.
 West of Tp. 13-9-4. Grading.
 Road south from Suffield. Grading.
 Road south from Waddington. Grading.
 Between 3/4-9/10-15/16-19-10-4. Grading.
 West of 2-11 and 14-20-9-4. Grading.
 Road north of Tp. 17-1-4. Clearing stone.
 Between 9/16-13-8-4. Grading.
 Between 28/29-32/33-4/5, Tp. 15 and 16-7-4. Grading.
 Between 14/15-16-7-4. Grading.
 West of Tp. 16-6-4. Grading.
 North of 7 to 12-13-10-4. Grading.
 West of 5 to 32-13-10-4. Grading.
 North of 19, Tp. 24-13-9 and 10-4. Grading.
 Between 26/27-13-10-4. Grading.
 West of 20-29 and 32-13-9-4. Grading.
 West of 4 to 33-14-9-4. Grading.
 Road west from Websdale. Grading.
 Road east and west of Jenner. Grading.
 Between 11/12-13/14-20-9-4. Grading.
 West of 5-21-9-4. Grading.
 Road south of Tp. 19-10-4. Grading.
 West of 4 to 33, Tps. 19 and 20-10-4. Grading.
 Road north and south of Iddesleigh. Grading.
 Between 17/18-16-8-4. Grading.
 Between 21/22-19-8-4. Grading.
 Road south from Sharrow. Grading.
 Road south of Tp. 21-2-4. Grading.
 West of 19 to 24-20-2-4. Grading.
 West of 25 and 36-20-2-4. Grading.
 West of 2 to 35-20-2-4. Grading.
 Between 23/24-19-8-4. Grading.
 North of 22 and 23-19-8-4. Grading.
 Road north from Atlee. Grading and culverts.
 Between 11/14-7/18-22-7-4. Grading.
 Between 5/6-22-7-4. Grading.
 Between 2/35-21/22-7-4. Grading.
 West of 26-35-2 and 11, Tp. 22 and 23-1-4. Grading.
 Road east from Sharrow. Grading.
 North of 19 to 24-21-4 and 5-4. Grading.
 West of Tp. 21-4-4. Grading.
 West of 2 to 35-21-4-4. Grading.

West of 1 to 36-21-4-4. Grading.
 Medicine Hat to Steerford. Grading and culverts.
 Township line east of Medicine Hat. Grading and culverts.
 Road south of Dead Lodge Canyon Ferry. Grading.
 Between 35/36-14-6-4. Grading.
 Between 11/14-20-9-4. Grading.
 East of 4 to 33-16-2-4. Grading and culverts.
 Between 19/20-14-7-4. Grading and culverts.
 North of Tp. 13-4-4 and north-east. Grading and culverts.
 Road south of Howell. Grading and culverts.
 Carlstadt to the north-east. Grading and culverts.
 Carlstadt to Brooks. Grading and culverts.
 From Schuler to the north-east. Grading and culverts.
 North of 22-14-2-4. Grading and culverts.
 Between 21/28-13-5-4. Grading.
 East of 29 and 32-14-7-4. Grading.
 Road east and west of Eckville. Grading road.
 North 19 to 24-39-5, 6 and 7-5. Ditching.
 East of Tp. 39-6-5. Grading road.
 Between 28/29-32/33-39-1-5. Grading road.
 Between 18/19-17/20-38-26-4. Repairs.
 Between 20/21-39-5-4. Grading.
 Between 17/18-44-10-4. Grading.
 Between 15/16-21/22-39-1-4. Grading.
 Between 7/8 and in 8-39-1-4. Grading.
 South of Tp. 39-10-4. Grading.
 Road north of Provost. Grading road.
 Between 8/9-39-2-4. Grading road.
 East of 6 to 31-40, 41 and 42-10-4. Grading road.
 Blind line west of Amisk. Grading road.
 North of 15 and 16-39-1-4. Clearing and ditching.
 Township line north of 37-1-4. Culvert.
 Township line west of Hardisty. Grading and culvert.
 East of 2 to 35, Tp. 41-9-4. Grading road.
 Road from Cairns to Sounding Lake. Grading road.
 North of Tp. 40-7-4. Grading road.
 Between 5/6-41-7-4. Grading and filling.
 Road north from Hayter. Grading.
 Between 20/21-40-6-4. Grading road.
 Between 21/28-40-6-4. Grading road.
 Between 7/18-44-10-4. Ditching and grading.
 Road north from Metiskow. Grading.
 Trail in Tp. 10-3-5. Culvert and grading.
 Road north from Burmis. Culvert and grading.
 Road between 25/30-9-2/3-5. Culverts and grading.
 Road north from Killam. Culverts and grading.
 Road west from Strome. Culverts and grading.
 Road from Strome to Killam. Culverts and grading.
 Road south from Kinsella. Grading road.
 North of 19 to 24-47-13-4. Grading road.
 Road east of Reliance. Grading road.
 West of Tp. 42 and 43-10-4. Repairs.
 Road north from Kinsella. Grading roads.
 North 19 to 24-45-14-4. Grading.
 East of 16-47-15-4. Grading and culverts.
 North of 9 and 10-43-15-4. Grading road.
 East of 36-47-12-4. Grading road.
 Between 23/26-41-14-4. Grading road.
 Between 29/30-42-14-4. Grading road.
 Road north from Longhead. Grading road.
 Between 2/3-10/11-44-14-4. Grading road.
 West from St. Albert. Grading road.
 East and west of Ray. Grading and culverts.
 East and west of Morinville. Grading road.
 North and south of Cardiff. Grading road.
 Road north of Legal. Clearing and grading.
 East of Tp. 54-25-4. Clearing and grading.
 East of Tp. 58-24-4. Grading road.

In 31-54-26-4 and south. Grading road.
 East of 6 to 31-57 and 58-24-4. Grading road.
 North of 19 to 24-56-26-4. Repairing road.
 Between 20/29-54-26-4. Repairing road.
 East of Tp. 57 and 58-25-4. Grading road.
 Between 14/15-22/23-57-26-4. Grading road.
 Between 35/36-55-26-4 and north. Clearing and grading.
 Between 35/36-58-24-4. Grading road.
 Between 12/13-57-25-4. Grading road.
 Between 33/34-55-27-4. Grading road.
 Between 22/27-55-27-4. Grading road.
 Between 21/22-57-26-4. Grading road.
 Elk Point to Ferry Crossing. Grading.
 St. Paul to Rife. Grading.
 North of 7 to 12-58-8-4 and east. Grading and culverts.
 Road west of Durlingville. Clearing and grading.
 Heinsburg to Ferry crossing. Clearing and grading.
 North of 10 and 11-61-6-4. Clearing and grading.
 Road west from Gurneyville. Clearing and grading.
 North of Tp. 62-2-4. Repairing road.
 North of 13 to 18-63-2-4. Clearing and grubbing.
 Between 35/36-55-4-4. Grubbing and grading.
 West of Tp. 56-3-4. Clearing and grubbing.
 Between 26/27-34/35-56-4-4. Grading road.
 From Lea Park Ferry to Onion Lake. Grading road.
 East of 3 to 34, Tp. 62 and 63-2-4. Grading road.
 Bonnyville north on Range line. Grading road.
 Through 25 and 26-56-4-4. Clearing and grading.
 Frog Lake to Lea Park Ferry. Clearing and grading.
 Road north and east from Beaver River Ferry. Clearing and grading.
 Hopkins' Ferry to Caskeyville and north. Grading road.
 Road west from Glendon. Clearing and ditching.
 South of Tp. 61-6-4. Grubbing and grading.
 Between 25/30-31/36-60-2/3-4. Brushing and covering.
 North of Tp. 36-17 and 18-4. Culverts and grading.
 Road south from Erskine. Grading road.
 Road south from Gadsby. Grading road.
 Subway in 36-38-21-4. Subway.
 South east from Halkirk. Culvert.
 Road south west of Athabasca. Ditching and grading.
 Between 23/24-25/26-56-24-4. Grading road.
 Road north of Battenburg. Grading road.
 From Athabasca Trail to Clyde. Repairing road.
 East of 17 and 20-55-24-4. Grading road.
 North of 59-24-4. Corduroy and grading.
 East of 2 to 35-59-19-4. Clearing and grading.
 Road north and south of Redwater. Grubbing and grading.
 North of 19 to 24-58-22 and 23-4. Grubbing and grading.
 Road east and west of Battenburg. Grading road.
 East of 2 to 35-59-20-4 and south. Grading road.
 North-west from Radway Centre. Culverts and grading.
 North of 19 to 24-61-24-4. Grading road.
 Between 28/29-30/31-5/6-7/8-60 and 61-23-4. Grading road.
 East of 27 and 34-61-24-4. Grading road.
 East of 6 to 31, Tp. 60-61-24-4. Clearing and corduroying.
 Between 14/15-65-22-4. Culverts and grading.
 East of 25-55-24-4. Grading.
 Between 7/18-61-23-4. Grading roads.
 Between 28/29-32/33-64-20-4. Clearing and grading.
 East of 5 to 32-58, 59 and 60-20-4. Clearing and grubbing.
 East of 17 to 32-65-22-4. Grading.
 Between 8/17-58-23-4. Grading road.
 Between 10/11-59-20-4. Clearing and grading.
 North of 31 to 36-57-21-4. Clearing and grading.
 From Colinton to Flat Lake. Corduroy and grading.
 Between 23/24-62-24-4. Clearing and grading.
 Through 18-59-23-4 and east. Grubbing and grading.
 Between 23/26-58-18-4. Corduroy and grading.

North of 21 to 24-6-20-4. Grading.
 West from Wells Siding. Grading.
 Road south of Grassy Lake. Culverts and grading.
 Between 19/30-6-19-4. Grading.
 Between 1/2-10-13-4. Grading.
 Between 21/22-17-18-4. Culvert repaired.
 Between 7/18-17-17-4. Grading.
 Between 22/27-23/26-8-21-4. Grading.
 Road south of Purple Springs. Culverts and grading.
 Between 19/20-9-16-4. Grading.
 Between 25/30-31/36-16-17/18-4. Repairing.
 Between 22/23-6-19-4. Grading slough.
 West of Tp. 17-18-4. Grading road.
 Between 7/18-12/13-15-18/19-4. Grading road.
 Between 19/30-15-18-4. Grading road.
 North of Tp. 15-18-4. Grading road.
 Between 13/14-9-17-4. Grading.
 Between 9/16-11-20-4. Grading and felling.
 Between 21/28-8-11-4. Ditching and grading.
 Between 17/18-9-20-4. Grading.
 Between 12/13-7-11-4. Grading slough.
 Between 21/28-8-14-4. Grading slough.
 Between 34/35-8-14-4. Grading.
 Between 19/20-29/30-8-14-4. Making fill's.
 Between 21/22-12-19-4. Grading road.
 Between 11/12-1/2-8-21-4. Grading road.
 Between 2/3-6-22-4 and north. Grading road.
 Road west from Coaldale. Grading road.
 Between 33/34-7-21-4 and south. Raising grade.
 North of 19 to 24-11-20-4. Cutting weeds.
 East of 2 to 35-9-21-4. Improving road.
 East of 2 and 11-9-20-4. Culverts and grading.
 South of 5 and 6-11-19-4. Grading.
 East of 6 to 19-11-19-4. Grading.
 South of Tp. 6, Rg. 19 and 20-4. Grading.
 West of 6-10-18-4. Repairing.
 East of 6 to 31-15-18-4. Grading.
 North of 19 to 24-9-21-4. Culverts and grading.
 East of Tp. 10-11-4. Culverts.
 South of Tp. 17-17-4. Grading.
 West of 30-6-20-4. Grading.
 West of 14 to 35-9-21-4. Culverts and grading.
 Between 16/17-20/21-6-22-4. Culverts and grading.
 North of Tp. 16-18-4. Culverts and grading.
 East of 3 to 22-7-11-4. Grading.
 East of 5 to 32, Tp. 7, 8 and 9-11-4. Grading and culverts.
 East of 3 to 34-14-19-4. Cutting weeds.
 North of 9 and 10-12-19-4. Culverts and grading.
 North of 10, 11 and 12-8-21-4. Repairing road.
 East of Tp. 7 and 8-21-4. Grading road.
 Between 9/10-13-19-4. Grading slough.
 Between 21/22-8-11-4. Culverts and grading.
 Between 21/28-17-18-4. Grading road.
 Between 32/33-16-18-4. Grading road.
 Between 21/22-27/28-8-21-4. Repairing roads.
 North of 19 to 24-54-16, 17, 18 and 19-4. Grading and culverts.
 Between 21/22-51-12-4 and north. Grading.
 Road south of Mundare. Grading.
 Between 20/29-53-16-4. Corduroy and clearing.
 Through 13-51-12-4. Grading slough.
 East of 2 to 35-52 and 53-13-4. Grading.
 Between 24/25-49-16-4. Grading.
 Between 23/24-49-16-4. Grading and culverts.
 Between 9/10-51-9-4. Grading.
 Road south from Innisfree. Grading.
 North of Tp. 54-11-4. Grading road.
 East of 3 to 34-55-7-4. Grading and culverts.
 Through 30 and 31-49-6-4. Grading.
 Minburn to Rodino. Grading road.

Between 27/28-33/34-53-10-4. Grading.
 Between 6/31-57/58-19-4. Grading and culverts.
 Between 8/9-58-16-4. Laying corduroy.
 Between 1/2-11/12-57-18-4. Corduroy and culverts.
 Between 13/24-24/25-10/15-3/4-58-16-4. Corduroy and culverts.
 Between 19/30-58-19-4. Grading.
 North of 31 to 36-54-18-4. Grading.
 South Victoria Trail. Grading road.
 Wostok to Andrew. Grading road.
 West of 17-20-29 and 32-54-20-4. Corduroying slough.
 Between 22/23-26/27-34/35-54-21-4. Grading road.
 Lamont north to Saskatchewan River. Repairing road.
 Between 7/18-55-19-4. Grading.
 North of 34-35 and 36-55-19-4. Grading road.
 Between 2/3-10/11-57-18-4. Corduroy and culverts.
 North of 11 and 12-54-21-4. Grading road.
 Between 19/30-54-20-4. Grading and culverts.
 North of Tp. 55-18-4. Corduroy and culverts.
 East of Tp. 56-21-4. Corduroying slough.
 North of Tp. 55-21-4. Grading road.
 Between 5/32-55/56-17-4. Grading and corduroy.
 East of Tp. 56-17-4. Grading road.
 Between 17/18-55-19-4. Grading road.
 Between 11/12-57-17-4. Grading road.
 North of 7 and 8-58-19-4. Corduroy and grading.
 Between 24/25-13/24-10/15-3/4-58-16-4. Laying corduroy.
 Between 32/33-56-18-4. Grading.
 East of Tp. 56 and 57-18-4. Grading and culverts.
 Between 10/15-11/14-56-17-4. Corduroy and cover.
 East of 4 to 33-56-17-4. Corduroy and grading.
 South of 1 to 6-54-22-4. Grading road.
 Between 14/15-55-19-4. Grading road.
 Between 9/16-58-16-4. Laying corduroy.
 Chauvin to Battle River. Repairing roads.
 Edgerton to Battle River. Repairing road.
 Road east and west of Warner. Culverts and grading.
 South of Tp. 4-14, 15 and 16-4. Grading road.
 Road east of Milk River. Grading road.
 Stirling to New Dayton. Grading road.
 Road east of Coutts. Repairs.
 Between 19/30-3-12-4 and east. Grading and culverts.
 North of Tp. 2-13-4. Repairs.
 Between 28/29-32/33-3-17-4. Grading road.
 Road north from Foremost. Grading and culverts.
 North of 31-4-15-4. Grading and culverts.
 North of Tp. 3-11 and 12-4. Grading road.
 Between 22/23-2-13-4. Cutting weeds.
 East of 17, 20, 29-2-15-4. Grading road.
 North of 35-2-16-4. Repairs.
 North of 7 to 12-2-15-4. Grading road.
 Between 10/15-2-16-4. Grading road.
 North of Tp. 1-14-4. Grading road.
 East of 36-2-14-4. Grading road.
 North of 25, 26, 27-2-14-4. Grading and culverts.
 Between 7/18-3-12-4. Repairing road.
 Between 13/14-3-11-4. Grading and culverts.
 East of 4-33-3-12-4. Grading and culverts.
 East of 31-4-15-4. Repairing road.
 West of 31-4-15-4. Grading road.
 Between 27/28-2-15-4. Grading road.
 East of Tp. 2-16-2. Grading road.
 Between 22/23-2-15-4. Grading road.
 North of 19, 20 and 21-2-16-4. Grading road.
 Between 13/14-3-11-4. Grading road.
 Road from Warner to Stirling. Grading and culverts.
 Road north and south of Goddard. Grading.
 Road between 22/27-23/26-1-17-4. Grading and culverts.
 Bittern Lake to Wetaskiwin. Grading and culverts.
 South-east from Wetaskiwin to Battle River. Repairs.

North of Tp. 45-23 and 24-4. Culverts and grading.
 East of 3 and 10 and south of 1 and 2-47-25-4. Grading.
 North of 45-26-4. Clearing and grading.
 From Chesterwold to Pigeon Lake Road. Culverts and grading.
 Between 25/26-46-24-4. Grading road.
 West of Lewisville. Grading road.
 Bigstone to Pigeon Lake. Grading road.
 Between 12/13-44-23-4. Grading road.
 East of 2 to 35-45-24-4. Grading.
 From Battle Lake south to Blindman River. Clearing and culverts.
 South from Westeros. Grading.
 North of Tp. 45-27 and 28-4. Grading.
 Between 1/2-47-3-5 and north-west. Clearing.
 Between 19/20-46-25-4. Clearing.
 South of Tp. 45-3-5. Clearing and ditching.
 Between 27/28-45-1-5. Laying corduroy.
 Between 13/24-47-23-4. Grading.
 West of 30 and 31-46-25-4. Grading.
 Between 3/4-47-3-5. Grading.
 Road south from Shandro Ferry. Grading and culverts.
 North of Tp. 58-17-4. Culverts and corduroy.
 Between 10/11-57-15-4. Repairing road.
 Road north-west from Desjarlais Ferry. Grading road.
 Between 24/25-55-12-4. Grading slough.
 Between 1/12-59-15-4. Grading and culverts.
 Between 1/2-11/12-59-15-4. Grading.
 North of 53-12-4. Clearing and grading.
 Between 33/34-58-15-4. Corduroy and grading.

TRUNK ROADS

During 1914 trunk road construction was undertaken on the following main roads:

Road north of Cereal.
 Road north and south of Sibbald.
 Road west from Youngstown.
 Road south from Youngstown.
 Road south from Oyen.
 Road south from Lloydminster.
 Road north from Lloydminster.
 Road south from Kitscoty.
 Road south-west from Moose Ferry.
 Road from Lloydminster to Kitscoty.
 Athabasca Landing to Lake Wabiscaw.
 Athabasca Landing to Lake Baptiste.
 House River to Fort McMurray.
 Athabasca Landing to Lesser Slave Lake.
 Edmonton to Athabasca Landing.
 Fort McMurray to Lac La Biche.
 Athabasca Landing to Lac La Biche.
 Road north from Athabasca Landing.
 Boyne Lake to Lac La Biche.
 St. Paul to St. Vincent.
 Brosseau Ferry to St. Paul.
 East and west of Clarkville.
 Gleichen to Cluny.
 Bassano to Fieldholm.
 South-west from Brooks.
 Road east from Cluny.
 Bassano to bridge over Bow River.
 East and west of Donalda.
 Bawlf to Donalda.
 Ohaton to Meeting Creek.

Road north from Daysland.
Road south of Miquelon Lake.
Road north from Bawlf.
Road north-west from Camrose.
From Macleod to International Boundary.
North and east of Magrath.
South of Stirling.
Beaver Creek Trail.
Trail through Meadow Creek.
Road east of Granum.
Road from Stavely to Willows.
Road up Stauffer Creek.
Edson to Grand Prairie.
Old Klondyke Trail.
Road east and west of Clyde.
North Morleyville Trail.
North of 19 to 24-29-3, 4 and 5-5.
Road east of 27-5-5.
Calgary and Edmonton Trail.
South Morleyville Trail.
Road from Castor to Fourth Meridian.
Road north of Tp. 31, Rg. 1 to 5-5.
Road north of Tp. 32-4-5.
Road from Edmonton to Chauvin.
Wye road east of Edmonton South.
Ministik to Deville.
Uncas to Deville.
Road north-east from Edson.
Road from Piers to Shining Bank.
Road from Edson to Tollerton.
Road east and west of Beiseker.
Road from Calgary to Gleichen.
Grouard to Peace River Landing.
Grouard to Spirit River.
Grouard to Sturgeon Lake.
Grouard to Sawridge.
Road from Hanna to Castor.
Road south from Hanna.
Road south of Craigmyle.
Road north from Craigmyle.
Calgary-Macleod Trail.
Innisfail to Mountain House.
Road east and west of Lousana.
Road from Innisfail to Clearwater River.
Road east from Innisfail.
Road north from Eckville.
Road west of Lacombe.
Road east of Lacombe.
Road west of Stettler.
From St. Albert to Lac Ste. Anne.
From Lac Ste. Anne to White Court.
From Seba to Tomahawk.
From Entwistle south.
From Edmonton to Entwistle.
From Lac Ste. Anne north.
From Fallis north to Island Lake.
From Glenford to Onoway.
Blind Line west of Millet.
Road east of Leduc.
Road west of Leduc.
Road east and west of Buford.
From Lethbridge to Cardston.
Macleod-Lethbridge Trail.
Road east from Carmangay.
From Macleod south.
From Macleod north.
From Macleod to Pincher Creek.
Medicine Hat to Josephsburg and Cypress Hills.
Irvine to Elkwater and Cypress Hills.

Eagle Butte to Medicine Lodge and south-east.
Irvine to Elkwater Lake.
Road south from Medicine Hat.
Road north from Irvine.
East road south from Seven Persons.
West road south from Seven Persons.
Road east from Lucky Strike.
From Walsh to Many Island Lake.
From Manyberries to Cypress Hills.
Road east and west of Avalon.
From Seven Persons to Medicine Hat.
From Walsh to Irvine.
From Seven Persons north.
From Medicine Hat to Irvine.
Road east from Altorado.
Road north and south of Faith.
From Sage Creek Post Office to Medicine Hat.
Nanton to Willow Creek.
East and west of Parkland.
West from Nanton.
West from Stavely.
Calgary to Priddis and Millarville.
Okotoks to Millarville.
Millerville to Black Diamond.
Road west of Olds.
Between 22/27-33-23-4.
Road west of Bowden.
From Shaftsbury to Dunvegan.
Dunvegan to Grand Prairie.
Peace River Crossing to Shaftsbury.
Base Line east and west of Sion.
South of Tp. 59-25-4.
Between 10/11-56-3-5.
Road north from Onoway.
From Belvedere to Mosside.
Road east from Ponoka.
Road west from Ponoka.
Road west from Bashaw.
Medicine Hat to Bowell.
East and north of Medicine Hat.
Bowell to Carlstadt.
Road north of Lamour.
North from Redcliff.
Suffield to Jenner.
Road east of Carlstadt.
Through Tp. 15, Rg. 3 and 4-4.
Road east of Red Deer.
Red Deer to Rocky Mountain House.
Red Deer to Evarts and west.
Road west of Hardisty.
Road east of Hardisty.
Road south of Hardisty.
Road north and south of Amisk.
Road north and south of Hughenden.
Road north from Cadogan.
Trail from Frank to Lundbrek.
Trail from Frank to Crow's Nest Pass.
Road north from Sedgewick.
Road south of Killam.
Sedgewick to Battle River.
From Lougheed south to Battle River bridge.
Lougheed to Bell's Hill and south.
South from Vegreville.
North-west from Strome.
Road east of Seymour.
Edmonton to St. Albert and north.
East and west of Legal.
Onion Lake to Frog Lake.
Road from Rife to Cold Lake.

From Moose Ferry to Ferguson Flats.
Long Lake to Ferguson Flats.
From Frog Lake to Cold Lake.
From Moose Ferry to Frog Lake.
From St. Paul to Elk Point.
Road north from Durlingville.
From Stettler to Drumheller.
Big Valley to Sullivan Lake.
From Stettler to Donaldia.
East and west from Stettler.
Road south from Castor.
Stettler to Buffalo Lake.
Stony Plain to Inga and south.
Road north and south of Duffield.
Edmonton to Woodbend.
South-west from Athabasca.
Edmonton to Fort Saskatchewan.
Edmonton to Fedorah.
Road north from Fort Saskatchewan.
Road east and west of Waugh.
Road east and west of Colinton.
Raymond to Magrath.
Welling Siding to Magrath.
Road north from Taber.
Road north from Coaldale.
Road south from Burdett.
Road south from Bow Island.
Road west from Taber.
Road from Lethbridge to Bow Island.
Road from Lethbridge to Stirling.
Road from Chipman to Toffield.
Vegreville to Desjarlais.
Mundare to Ryley and south.
Vegreville to Brosseau.
Trunk road along C. N. Railway.
Ranfurly to Viking.
Road north from Kingman.
Road north-east from Ranfurly.
North from Innisfree.
North from Manville.
North from Vermilion.
South from Vermilion.
South from Elk Point Ferry.
Vermilion to Moose Ferry.
Road north from Andrew.
Fort Saskatchewan to Andrew.
Road north from Bruderheim.
North-east from Chipman.
Wainwright to Vermilion.
Road north from Heath.
From Warner to Milk River.
Road north from Warner.
Road south from Foremost.
From Milk River to Coutts.
Road east from New Dayton.
Road east from Wetaskiwin.
Road west from Duhamel.
Wetaskiwin to Buck Lake.
North of Tp. 56-12, 13 and 14-4.
Pakan to Smoky Lake.

AGRICULTURAL AND BUILDING CONSTRUCTION BRANCH

Edmonton, Feb. 11, 1915.

JOHN STOCKS, ESQ.

Deputy Minister of Public Works,
Edmonton, Alta.

Sir,—I have the honour to report as follows on the work undertaken during the year 1914, by the Architectural and Building Construction Branch.

The work performed was of a most varied form, but due and careful consideration was given to each problem in an endeavor to secure the best possible results in the most economical manner.

The work has included the preparation of preliminary sketches, working drawings, details and specifications in connection with the various buildings which are described below, and also the passing of all accounts and estimates in connection with same as well as the careful selection and purchase of equipment and furnishings for several of these buildings, including the furnishing and decoration of the legislative rooms in the parliament buildings.

The work undertaken has also involved the careful supervision of the construction of the buildings and also the selection and purchase of all building materials required in connection with those buildings not undertaken by general contract. The supervision was undertaken by inspectors appointed to take charge of each building and general supervision was further given by frequent visits paid by Mr. D. E. McDonald, General Building Superintendent, and periodical visits paid by myself.

For the purpose of easy reference I am dividing the work performed by this branch into two heads, viz: Architectural Work and Construction Work.

ARCHITECTURAL WORK.

CAMROSE NORMAL SCHOOL:

Most of the work in connection with this building was completed during the year 1913, but it was necessary to prepare further details to ensure the proper carrying out of the design; besides which a good deal of special equipment required for the building had to be illustrated by drawings and details.

PONOKA ASYLUM:

In connection with the asylum, plans and details were prepared for the north dormitory building, this building being intended to accommodate about 200 women patients. The building was design-

ed in three stories and basement and is of a strictly modern fire-proof construction throughout.

The drawings, details and specifications were completed for the whole of the general contract and also for the plumbing and heating of this building. Tenders were called for and contracts awarded.

Plans and details were also prepared for morgue and post-mortem room, and also for a number of attendants' cottages.

PROVINCIAL JAIL, FORT SASKATCHEWAN:

All the necessary plans and details were prepared in connection with this building, allowing construction to be commenced in the early spring.

The construction is reinforced concrete throughout, combined with steel beams and columns in the interior floor construction. The building being, of course, strictly fire resisting.

This building is intended to accommodate about 200 prisoners. One half of this number being accommodated in the cell block, each man having an individual cell. The others are accommodated in eight dormitories arranged in another wing, in which dormitory wing are also provided dining room and kitchen, laundry, bath rooms and other necessary offices. The two wings are divided by administrative block combining administrative offices and guard room with guards' quarters and hospital on the upper floor.

The building has been carefully studied and designed with a view to the perfect supervision of the prisoners, combined with the latest and most modern sanitary methods of construction.

Provision was also made in the planning to allow for future extension, without in any way interfering with the working of the present building.

Tenders were called for and contracts awarded on the plumbing, heating and ventilation, electric wiring, cell front construction, structural steel, hardware and electric lighting fixtures.

TELEPHONE BUILDING, MEDICINE HAT:

The necessary architectural work was performed and completed in connection with this building. Tenders were called for and contracts awarded in connection with same.

The building consists of one story and basement designed with a view to further extension. The building is strictly fireproof throughout and arranged to accommodate automatic telephone apparatus in the rear with the necessary administrative offices in front.

TELEPHONE BUILDING, CAMROSE:

Plans were prepared in connection with this building to allow tenders being called on the excavation and concrete basement work, and contract was awarded in connection with same.

TELEPHONE BUILDING, DIDSBURY:

Complete drawings were prepared in connection with this building with specifications and handed over to the Telephone Department to deal with.

TELEPHONE BUILDING, WETASKIWIN:

All the necessary detail drawings and specifications were prepared in connection with this building and tenders were called for and contract awarded. The design shows a one story and basement building of semi-fire proof construction.

COURT HOUSE, STETTLE:

The work done in connection with this building consisted of preliminary sketches, plans, etc., for altering a frame school building, and adapting same for use as a court house. All the necessary work was completed in connection with this.

EDUCATIONAL DEPARTMENT:

A number of preliminary sketches were prepared for the Educational Department with a view to arriving at an economical and suitable one room school building. After a suitable plan was arrived at complete drawings and specifications were prepared for publication by the Educational Department.

The Educational Department have also taken advantage of this branch by sending deputations of school trustees from various country districts with a view to consulting on points pertaining to the erection of schools in various school districts.

Some work was also done in preparing preliminary sketches on a model two-room school, but work was not sufficiently advanced to publish plans in 1914.

AGRICULTURAL DEPARTMENT:

This department has also made use of the Architectural Branch by having plans prepared for various farm buildings, residences, etc., in connection with the demonstration farms.

CONSTRUCTION WORK.

CAMROSE NORMAL SCHOOL:

At the beginning of the year this building had been erected to the height of first story, and as soon as weather permitted in the spring construction was recommenced. The building was carried on in a very satisfactory manner, and sufficiently advanced to allow of occupation at the end of the year.

The building was erected entirely by contract excepting that the mill work, including doors, etc., were supplied from our own shop.

PONOKA ASYLUM:

Construction work on the north dormitory building was commenced in August, and satisfactory progress was made, it being

found possible to cover in the building before the severe winter weather commenced, thus allowing construction work to proceed throughout the whole winter. The building is being erected entirely by contract excepting that mill work is being supplied from our own shop. Construction was carried out in connection with the morgue and post-mortem rooms and also to attendants' cottages by the department's own workmen, satisfactory progress being made on all of these buildings so that they are now all completed and occupied.

PROVINCIAL JAIL, FORT SASKATCHEWAN:

Construction of this building was commenced in the early spring, most of the excavation being performed by prison labour. The building was undertaken entirely by the Construction Branch and the work undertaken by day labour, with the exception of the plumbing, heating, electrical work, etc., which were performed by contract.

The work also included the complete water supply and drainage system, which was undertaken also by day labour which, although not completed, had progressed satisfactorily before the close of the year.

TELEPHONE BUILDING, MEDICINE HAT:

The construction of this building was carried out by contract and satisfactory progress made, the building being completed in a satisfactory manner and occupied in November.

TELEPHONE BUILDING, CAMROSE:

The work on this building consisted simply of taking out the excavation and constructing concrete basement walls and covering same in for winter. The work was done by general contract and proceeded with in a satisfactory manner.

TELEPHONE BUILDING, WETASKIWIN:

Construction of this building was commenced in December and before the end of the year excavation had been taken out and a start made on the construction of the basement walls. This work also being performed by general contract.

COURT HOUSE, STETTLE:

The work on this building consisted of alterations made to a frame school building and repairs and renovations to same. The work being performed by workmen employed under the department with the exception of plumbing, heating and electric lighting which was done by local contractors.

The court houses at Lethbridge, Wetaskiwin, and the Land Titles Building, Calgary, were decorated and put in good repair.

CELLS AT MACLEOD:

Steam heating systems were installed by contract in the men's and women's guard rooms at Macleod and Macleod Court House,

also installation of plumbing and alterations to accommodate District Judge.

Cells were installed in the old court house at Calgary, and also in the guard room at Macleod and Fort Saskatchewan.

The work as above indicated has proceeded in every case in an efficient and successful manner.

Besides the work described in detail there has been a certain amount of repair and alteration work in connection with the various public buildings in the province. This work being handled through this branch.

Our wood-working shop has been carried on in a most satisfactory manner, manufacturing practically the whole of the mill work for the various buildings above described, and also manufacturing a quantity of the furnishings required for these buildings, besides the necessary mill work for the repairs and alterations mentioned above.

I have the honour to be, Sir,

Your obedient servant,

RICHARD P. BLAKEY

Provincial Architect.

SURVEYS BRANCH

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alta.

Sir,—I have the honour to submit the following report in connection with the work of the Surveys Branch of the Department of Public Works for the year 1914.

Speaking generally the season was a favourable one for field work and a large amount of work was accomplished. In most parts of the province our parties lost little time on account of bad weather, the district north and east of Edmonton being the only exception to this rule.

The general summary of work done, which is given below, shows a considerable increase in nearly all branches of the work over previous years, and also shows that the number of surveys required is constantly increasing. This is, of course, to be expected on account of new areas being settled each year, but in the older settled parts of the province, also, as development advances, new requirements for surveys appear constantly to arise.

The formation of a considerable number of rural municipalities and the fact that they take care of claims for compensation for

roads within their limits has partly relieved us of the heavy burden we have been bearing in that connection. We still make the surveys for them, however.

The examination of plans of townsite subdivisions, all of which have to be approved here before registration, did not, during the past year, require such a great amount of time as in the previous year or two, there being only a comparatively small number of plans registered. The revenue from this source was accordingly much reduced. During the latter part of the year we have been receiving numerous applications for consent to the cancellation of subdivision plans.

The survey of the boundary between Alberta and British Columbia, under the commissioners appointed for that purpose, has progressed satisfactorily.

Below is a summary of the work of this branch for the year, and a statement of the work done in the field in the vicinity of Edmonton under supervision from this office.

I have the honour to be, Sir,

Your obedient servant,

L. C. CHARLESWORTH,

Director of Surveys

SUMMARY.

Surveys required and brought forward from 1913.....	567
Surveys asked for during 1914	982
Surveys made during 1914	808
Surveys carried over to 1915 schedule	741
Surveys made without instructions (included in above figures).....	141
Plans prepared and filed in land titles office.....	656
Certificates of title received for roads.....	608
Certificates of title received for building sites.....	3
Certificates of title received for land other than surveyed roads.....	7
Transfers issued covering roads no longer required.....	134
Amount paid as compensation for right-of-way, etc.	\$21,048.81

LEASE OF ROAD ALLOWANCES.

Number of new applications to lease road allowances.....	41
Number of new applications granted	13
Number of leases granted during 1914, including free leases issued as compensation for surveyed roads.....	168
Total amount of rental received for 1914 leases.....	\$306.00
Amount actually received during the year 1914 for leased roadways..	\$218.00

WORK DONE IN FIELD UNDER SUPERVISION FROM OFFICE.

ROAD DIVERSIONS.

N. E. $\frac{1}{4}$ Sec. 35-39-21-4.
W. $\frac{1}{4}$ Secs. 19, 30 and 31, Tp. 49-19-4.
S. E. $\frac{1}{4}$ Sec. 21-52-21-4.
E. $\frac{1}{2}$ of N. E. $\frac{1}{4}$ Sec. 11-51-19-4.
S. W. $\frac{1}{4}$ Sec. 14-50-20-4.
W. $\frac{1}{2}$ Sec. 16-49-20-4.
N. $\frac{1}{2}$ Sec. 34-49-24-4.
Between Secs. 15 and 16, Tp. 51, Rge. 19-4.
W. $\frac{1}{2}$ Secs. 18 and 19, Tp. 46, Rge. 25-4.
E. $\frac{1}{2}$ Sec. 12-40-20-4.

W. $\frac{1}{2}$ Sec. 19-41-20-4.
 E. Secs. 26 and 35, Tp. 41, Rge. 19-4.
 N. $\frac{1}{2}$ Sec. 35-42-21-4.
 W. of Tp. 42, Rge. 19-4.
 W. of Secs. 17, 20 and 29, Tp. 42, Rge. 19-4.
 Between Secs. 5 and 6, Tp. 43, Rge. 21-4.
 S. W. $\frac{1}{4}$ Sec. 28-46-24-4.
 E. of Sec. 4 and 9, Tp. 49, Rge. 21-4.
 S. $\frac{1}{2}$ Secs. 3 and 4, Tp. 51, Rge. 21-4.
 Secs. 26 and 27, Tp. 48, Rge. 24-4.
 N. E. Sec. 21, Tp. 39, Rge. 22-4.
 In Secs. 1, 11 and 12, Tp. 40, Rge. 21-4.
 In Secs. 22, 23, 26 and 27, Tp. 39, Rge. 21-4.
 In Secs. 34 and 35, Tp. 39, Rge. 21-4.
 In Secs. 25 and 26, Tp. 39, Rge. 21-4.
 In Secs. 2, 3, 10 and 11, Tp. 40, Rge. 21-4.
 In Secs. 4 and 5, Tp. 45, Rge. 22-4.
 In E. $\frac{1}{2}$ Sec. 23, Tp. 54, Rge. 21-4.
 In Secs. 26 and 27, Tp. 41, Rge. 21-4.
 In Secs. 12 and 13, Tp. 45, Rge. 22-4.
 In Secs. 25 and 26, Tp. 50-18-4 and the N. E. $\frac{1}{4}$ Sec. 31, Tp. 50, Rge. 17-4.
 In S. W. $\frac{1}{4}$ Sec. 30-41-20-4
 N. W. $\frac{1}{4}$ Sec. 28-46-23-4.
 In S. E. $\frac{1}{4}$ 11-48-24-4.
 In W. $\frac{1}{2}$ Sec. 15-47-22-4.
 In east $\frac{1}{2}$ Sec. 29-46-22-4.
 In W. $\frac{1}{2}$ Sec. 13-44-22-4.
 In Sec. 31-44-22-4.

NEW ROADS.

In Sec. 8, Tp. 40, Rge. 20-4.
 N. W. $\frac{1}{4}$ Sec. 20 and N. E. $\frac{1}{4}$ Sec. 19, Tp. 48, Rge. 23-4.
 Into Secs. 13, 14, 17, 18, 19, 20, 23 and 24, Tp. 49, Rges. 20 and 21-4.
 Into Secs. 8 and 9, Tp. 49, Rge. 21-4.
 Into Secs. 18, 20, 29 and 30, Tp. 42, Rge. 20-4.
 Into Secs. 5, 6, 7, 8, 9, 10, 15 and 16, Tp. 42, Rge. 20-4.
 Into N. $\frac{1}{2}$ 30-58-26-4 and N. $\frac{1}{2}$ 25 and 26-58-27-4.
 Across Secs. 2 and 11, Tp. 53, Rge. 22-4.
 Into E. $\frac{1}{2}$ Sec. 14 and S. E. $\frac{1}{4}$ Sec. 23, Tp. 43, Rge. 21-4.
 Across Sec. 23, Tp. 51, Rge. 21-4
 Into Secs. 15 and 22, Tp. 46, Rge. 24-4.
 Into Secs. 28 and 33, Tp. 47, Rge. 24-4.
 Into Secs. 34 and 35, Tp. 41, and S. $\frac{1}{2}$ Sec. 3, Tp. 42, Rge. 21-4.
 Into Sec. 31, Tp. 47, Rge. 24-4.
 Into Secs. 1, 10, 11, 12 and 15, Tp. 52, Rge. 21-4 and Sec. 6, Tp. 52, Rge. 20-4.
 Through Sec. 36, Tp. 59, Rge. 25-4.

EXAMINATIONS.

W. of Sec. 31, Tp. 40, Rge. 19-4.
 N. W. $\frac{1}{4}$ of Sec. 19-40-20-4.
 N. of Sec. 30-49-21-4.
 S. of Sec. 27-50-24-4.
 N. of Sec. 7-42-22-4.
 E. of Sec. 24-44-21-4.
 W. of Sec. 22-41-21-4.
 N. of Secs. 26 and 27-41-21-4.
 W. of Secs. 18 and 19, Tp. 46, Rge. 22-4.
 East of Sec. 30-48-21-4.
 Diversion in N. E. $\frac{1}{4}$ Sec. 23 and N. W. $\frac{1}{4}$ Sec. 24, Tp. 53, Rge. 22-4.
 Diversion in E. $\frac{1}{2}$ 17 and 20, Tp. 53, Rge. 22-4.
 E. of Sec. 27-53-23-4.
 Ditch in Sec. 6-45-22-4.
 W. of Secs. 2 and 11, Tp. 45, Rge. 22-4.
 S. W. $\frac{1}{4}$ Sec. 18-49-21-4.

MISCELLANEOUS.

Ditches in Secs. 7, 17 and 18, Tp. 47, Rge. 22-4.
 Road to ford in Secs. 12 and 13, Tp. 45, Rge. 23-4.
 Traverse of Lake in N. W. 6-52-20-4.

EDMONTON, ALTA., Dec. 29th, 1914.

L. C. CHARLESWORTH, ESQ.,
Director of Surveys,
 Edmonton, Alta.

Sir,—I have the honour to submit the following report in connection with survey work performed by me during the season of 1914 in north Alberta.

I organized my party and left Edmonton April 23, working eastward both north and south of the Saskatchewan River, making about all the outstanding surveys until I reached the Fourth Meridian. I then worked north-west to St. Paul de Metis and Durlingville.

The season was quite rainy for field work.

Party was disbanded November 27th.

I attach hereto a complete list of surveys classified as Diversions, New Roads and Examinations.

Your obedient servant,

A. P. C. BELYEA,
District Surveyor and Engineer.

DIVERSIONS.

N. E. $\frac{1}{4}$ Sec. 35-56-21-4.
 Sec. 16-57-23-4.
 S. E. $\frac{1}{4}$ Sec. 4-56-5-4.
 Secs. 24/25, Tp. 56-7-4.
 Secs. 35/36, Tp. 56, Rge. 15-4.
 N. W. $\frac{1}{4}$ Sec. 5-59-16-4.
 N. E. $\frac{1}{4}$ Sec. 33-54-14-4.
 E. $\frac{1}{2}$ Sec. 33-53-8-4.
 Secs. 1/6, Tp. 55, Rges. 7/8-4.
 N. W. $\frac{1}{4}$ Sec. 35-53-9-4.
 N. W. $\frac{1}{4}$ Sec. 1-54-9-4.
 Sec. 19-53-9-4 and Sec. 24/25, Tp. 53-10-4.
 Secs. 8 and 18, Tp. 53-9-4.
 Secs. 13, 23 and 24, Tp. 53-9-4.
 Secs. 11 and 12, Tp. 53, Rge. 9-4.
 Secs. 31 and 32, Tp. 54, Rge. 9-4.
 Sec. 31-54-9-4.
 S. W. $\frac{1}{4}$ Sec. 22-54-9-4.
 N. E. $\frac{1}{4}$ Sec. 35-53-9-4.
 N. W. $\frac{1}{4}$ Sec. 33-52-4-4.
 E. $\frac{1}{2}$ Sec. 28-55-13-4.
 N. $\frac{1}{2}$ Sec. 19-57-4-4.
 Sec. 11, 13 and 14, Tp. 57-13-4.
 Sec. 19-54-11-4.
 Sec. 9-55-11-4.
 Secs. 34/35-53-10-4.
 Sec. 15-53-10-4.
 Secs. 7 and 8-53-11-4.
 Secs. 3 and 4, Tp. 54-2-4.
 N. E. $\frac{1}{4}$ Sec. 33-57-15-4.

S. E. $\frac{1}{4}$ Sec. 18-53-15-4.
 W. $\frac{1}{2}$ Sec. 16-53-1-4.
 W. $\frac{1}{2}$ Sec. 11-53-1-4.
 Sec. 4-53-1-4.
 Secs. 20 and 21, Tp. 52, Rge. 7-4.
 N. E. $\frac{1}{4}$ 3-53-9-4.
 Secs. 25 and 36, Tp. 53-10-4.
 Secs. 16 and 17, Tp. 54, Rge. 7-4.
 Secs. 11, 13 and 14, Tp. 53, Rge. 11-4.
 S. E. $\frac{1}{4}$ 4-59-8-4.
 E. $\frac{1}{2}$ 13-59-9-4.
 Secs. 15 and 16, Tp. 53-1-4.
 S. E. $\frac{1}{4}$ 2-56-13-4.
 S. W. $\frac{1}{4}$ 25-55-13-4.
 Secs. 8 and 17, Tp. 56, 13-4.
 S. $\frac{1}{2}$ Sec. 29-55-13-4.
 W. Sec. 19-51-15-4.
 N. W. $\frac{1}{4}$ 35-56-6-4.
 Sec. 13-53-12-4.
 Secs. 11, 14 and 15, Tp. 52, Rge. 11-4.
 Secs. 25 and 26, Tp. 54-9-4.
 S. W. $\frac{1}{4}$ Sec. 22-58-22-4.
 N. W. $\frac{1}{4}$ Sec. 15-56-7-4.
 S. E. $\frac{1}{4}$ Sec. 24-60-6-4.
 N. E. $\frac{1}{4}$ Sec. 32-60-8-4.
 S. W. $\frac{1}{4}$ Sec. 29-56-6-4.
 Sec. 17-58-6-4.
 Secs. 3 and 4, Tp. 55, Rge. 7-4.
 N. E. $\frac{1}{4}$ Sec. 34-55-4-4.
 N. W. $\frac{1}{4}$ Sec. 33-54-4-4 and Secs. 4/5, Tp. 55-4-4.
 Secs. 27, 33 and 34, Tp. 56-5-4.
 W. $\frac{1}{2}$ Sec. 10-56-16-4.
 Sec. 8-58-22-4.
 S. E. $\frac{1}{4}$ Sec. 17-61-5-4.
 Secs. 31/32-60-5-4.
 Sec. 22-58-9-4.
 N. E. $\frac{1}{4}$ Sec. 33-56-14-4.
 N. W. $\frac{1}{4}$ Sec. 34-57-15-4.
 E. $\frac{1}{2}$ Sec. 8-52-21-4.

NEW ROADS

Sec. 13-57-14-4 and Secs. 18, 19, 20, 28 and 29, Tp. 57-13-4.
 Secs. 21 and 28, Tp. 56, Rge. 21-4.
 Secs. 3, 9 and 10, Tp. 56, Rge. 21-4.
 Sec. 15-59-15-4.
 Secs. 10, 11, 14 and 15, Tp. 53-9-4.
 Through Tp. 58, Rges. 6/7-4.
 Secs. 9, 10 and 11, Tp. 61-6-4.
 Secs. 13 and 23, Tp. 52-11-4.
 Range line W. Tp. 53-11-4.
 Secs. 31, 32 and 33, Tp. 54-11-4 and Sec. 5-55-11-4.
 Secs. 1, 2 and 3, Tp. 54, Rge. 12-4.
 Secs. 21, 22 and 28, Tp. 55, Rge. 4-4.
 Secs. 17, 18 and 19, Tp. 57, Rge. 7-4 and through Tp. 57, Rge. 8-4.
 Secs. 28, 29, 30, 31, 32 and 33, Tp. 56, Rge. 5-4 and Secs. 25, 26, 35 and 36, Tp. 56, Rge. 6-4.
 Secs. 21, 22, 23 and 14, Tp. 54, Rge. 11-4.
 Secs. 29, 30 and 31, Tp. 54, Rge. 11-4.
 Secs. 5, 6, 7 and 8, Tp. 59, Rge. 8-4.
 Secs. 14, 15, 16, 17, 18, 19, 20, 21, 22 and 23, Tp. 55, Rge. 7-4.
 Secs. 22 and 23, Tp. 56, Rge. 5-4.
 Secs. 29, 30 and 31, Tp. 55, Rge. 4-4.
 N. Secs. 29 and 30, Tp. 57, Rge. 8-4.
 Secs. 16 and 21, Tp. 55, Rge. 21-4.

RE-ESTABLISHMENT OF LOST CORNERS.

E. of Secs. 14, 23, 26 and 35, Tp. 56, Rge. 23-4.

EXAMINATIONS.

Road allowance between Secs. 3 and 34, Tp. 52/51-7-4.
 Road allowance between Secs. 34 and 35, Tp. 54-10-4.
 Road allowance between Secs. 10 and 15, Tp. 58-15-4.
 Road allowance between Secs. 31 and 36, Tp. 54, Rges. 8/9-4.
 Sec. 16-57-14-4.
 Sec. 9-56-4-4.
 Road allowance between Secs. 14 and 15, Tp. 55, Rge. 10-4.
 Road allowance between Secs. 24 and 25, Tp. 54-7-4.
 S. E. $\frac{1}{4}$ Sec. 13-58-7-4.
 Road allowance E. Sec. 16-59-8-4.
 Road allowance N. Secs. 21 and 22, Tp. 59-8-4.
 Sec. 16, Tp. 61, Rge. 5-4.
 W. Secs. 6 and 7, Tp. 52, Rge. 7-4.
 N. W. $\frac{1}{4}$ Sec. 28-56-5-4.

WAINWRIGHT, ALTA., Dec. 31, 1914.

L. C. CHARLESWORTH, ESQ.

Director of Surveys,

Edmonton, Alta.

Sir,—I have the honour to submit the following report of the surveys made and other work done in the districts of Vegreville and Wainwright, over which I had charge during the past season.

The first part of the year was spent in preparing, and completing the returns of the previous season's work.

On April 22nd, I organized my party at Vegreville, and worked easterly to Islay, on the Canadian Northern Railway; from here I worked south and westerly doing work on both sides of the Battle River. I here moved my outfit to Wainwright, and worked easterly along the Grand Trunk Pacific Railway, to the east boundary of the province, from which place I worked back south-westerly, clearing up a number of urgent surveys, which had accumulated. Crossing the Saskatoon branch of the Canadian Pacific Railway, I worked southerly, to Loyalist and Consort, on the Lacombe branch of the Canadian Pacific Railway, laying out a number of roads through and about the Neutral Hills; completing this I moved my outfit back to Czar and worked westerly as far as Sedgewick. From here I worked southerly across the Battle River, to the Halkirk district. I then moved northerly doing work along the way as far as Daysland on the Saskatoon branch of the Canadian Pacific Railway, and easterly along the same to Killam. From here I worked north and westerly to Holden on the Grand Trunk Pacific, thence easterly along the same to Irma; completing here I worked north-easterly across the country to Vermilion, and then easterly along the Canadian Northern Railway to the east boundary of the province clearing up a number of jobs that had accumulated since early in the year. From here I worked southerly to Chauvin, and cleared up all the new work in this locality, after which I worked westerly along the Grand Trunk Pacific Railway and on receipt of notice from your department, I closed up the season's work and paid off my men on December 4th.

Throughout most of the districts I find that the new municipalities are taking an active interest in opening up and improving new roads.

With the exception of a few rainy days, the season as a whole was favourable in my district for field work, and I was able to cover practically my whole district, and some parts of it twice.

The work of the past season consists in the survey of new roads, road diversions, re-surveys, examination of roads, reports and estimates.

The following being a list of the various works done:

NEW ROADS.

New road north of Sec. 2-41-8-4.
 New road south of Sec. 11-41-16-4.
 New road north of Secs. 1, 2, 3 and 4-41-7-4.
 New road in Sec. 16-37-6-4.
 New road north of Sec. 14-49-16-4.
 New road in the west $\frac{1}{2}$ of Sec. 33-47-10-4.
 New road in Sec. 25-50-9-4 west from Mannville.
 New road in Secs. 25 and 36-46-12-4.
 New road through Sec. 5-41-4-4.
 New road north of Secs. 28, 29 and 30-41-4-4.
 New road through Sec. 34-41-4-4.
 New road north of Sec. 25-41-5-4.
 New road in Sec. 1-41-5-4.
 New road in Sec. 20-43-1-4.
 New road in south-east $\frac{1}{4}$ of Sec. 17-44-13-4.
 New road through Secs. 16, 21, 28 and 33-37-7-4, and Sec. 4-38-7-4.
 New road north of Sec. 16-41-7-4.
 New road through Sec. 35-47-12-4.
 New road north of Secs. 2 and 3-45-13-4.
 New road across Secs. 6, 7, and 8-51-4-4, and across Sec. 1-51-5-4.
 New road through Secs. 17, 18 and 20-40-6-4 to Czar.
 New road in Secs. 19, 30 and 31-39-4-4.
 New road in Secs. 30 and 31-42-9-4.
 New road across Secs. 13, 14, 22 and 23-42-9-4.
 New road north of Secs. 16, 17 and 18-41-8-4.
 New road north of Secs. 13, 14 and 15-47-11-4.
 New road in Secs. 19 and 20-40-6-4 west from Czar.
 New road across Sec. 35-43-5-4.

ROAD DIVERSIONS.

Diversion east of Sec. 31-41-12-4.
 Diversion east of Sec. 12-43-12-4.
 Diversion north of Sec. 11-42-6-4.
 Diversion west of Sec. 13-42-6-4.
 Diversion west of Sec. 11-42-12-4.
 Diversion east of Secs. 4 and 9-45-5-4.
 Diversion west of Sec. 10-47-5-4.
 Diversion west of Sec. 11-41-16-4.
 Diversion east of Sec. 21-42-16-4.
 Diversion east of Sec. 29-42-16-4.
 Diversion west of Sec. 21-42-16-4.
 Diversion into Sec. 19-41-1-4 and Sec. 24-41-2-4.
 Diversion west of Sec. 15-49-3-4.
 Diversion north of Sec. 21-49-3-4.
 Diversion east of Sec. 14-43-11-4.
 Diversion into Secs. 2, 3 and 11-47-11-4.
 Diversion east of Sec. 25-42-9-4.
 Diversion west of Sec. 11-42-6-4.
 Diversion into Secs. 26 and 36-43-4-4.
 Diversion north of Sec. 21-46-2-4.

Diversion west of Sec. 12-46-12-4.
Diversion east of Sec. 11-46-12-4.
Diversion into Secs. 11 and 12-46-12-4.
Diversion into Sec. 1-51-9-4, and Sec. 6-51-8-4.
Diversion east of Sec. 12-51-9-4.
Diversion into Secs. 12 and 13-51-9-4.
Diversions south of Sec. 29-49-6-4. (2 Divs.)
Diversion west of Sec. 16-47-10-4.
Diversion west of Sec. 29-47-10-4.
Diversion east of Sec. 21-47-10-4.
Diversion west of Sec. 23-47-10-4.
Diversion into Secs. 5 and 6-48-5-4, and Sec. 31-47-5-4.
Diversion west of Sec. 8-51-12-4.
Diversion in Sec. 11-44-5-4. (Changed.)
Diversion west of Sec. 6-48-11-4.
Diversion through Sec. 32-50-6-4 north of Vermilion.
Diversion east of Sec. 5-45-14-4.
Diversion into Secs. 16 and 17-44-3-4.
Diversion into Sec. 24-44-4-4, and Sec. 19-44-3-4.
Diversions into Secs. 1 and 2-45-4-4, and Sec. 36-44-4-4.
Diversions into Secs. 25, 35 and 36-46-7-4.
Diversions into Secs. 22 and 23-48-6-4.
Diversion north of Sec. 19-48-3-4, and north of Sec. 24-48-4-4.
Diversion east of Secs. 26 and 35-49-8-4.
Diversion north of Sec. 35-50-3-4.
Diversion west of Sec. 9-41-6-4.
Diversion east of Sec. 17-41-6-4.
Diversion north of Sec. 21-49-7-4.
Diversion north of Sec. 20-49-7-4.
Diversion south of Sec. 29-49-7-4.
Diversion north of Sec. 2-45-4-4.
Diversions north of Sec. 33-43-1-4. (2 Divs.)
Diversions east of Sec. 31-42-2-4. (2 Divs.)
Diversion east of Sec. 22-44-1-4.
Diversion west of Sec. 32-42-1-4.
Diversion into Secs. 27 and 28-41-3-4.
Diversion north of Sec. 34-40-3-4.
Diversion north of Sec. 9-41-3-4.
Diversion into Secs. 10 and 15-41-3-4.
Diversion east of Sec. 17-43-2-4.
Diversion north of Sec. 9-43-2-4.
Diversion east of Sec. 30-39-1-4.
Diversion east of Secs. 1 and 12-37-7-4.
Diversion east of Sec. 12-37-7-4.
Diversion in Secs. 7 and 18-37-6-4.
Diversion south of Sec. 3-38-7-4.
Diversion north of Sec. 9-37-7-4.
Diversion west of Sec. 9-37-7-4.
Diversion west of Sec. 33-36-7-4.
Diversion east of Sec. 32-36-7-4.
Diversion west of Sec. 28-36-7-4.
Diversion west of Sec. 16-36-7-4.
Diversion east of Sec. 5-36-7-4.
Diversion into Secs. 32 and 33-35-7-4.
Diversion east of Sec. 29-35-7-4.
Diversion into Secs. 20 and 21-35-7-4.
Diversion west of Sec. 16-35-7-4.
Diversion into Secs. 27 and 28-47-11-4.
Diversion east of Sec. 23-47-10-4.
Diversion north of Sec. 34-46-10-4.
Diversion east of Sec. 33-46-10-4.
Diversion south of Sec. 4-47-10-4.
Diversion into Sec. 5-47-10-4, and Sec. 32-46-10-4.
Diversions north of Sec. 31-46-10-4. (2 Divs.)
Diversion south of Sec. 1-47-11-4. (2 Divs.)
Diversion into Sec. 35-46-11-4, and Sec. 2-47-11-4.
Diversion east of Sec. 23-47-9-4.
Diversion into Secs. 21 and 22-47-11-4.
Diversion east of Sec. 22-47-6-4.

Diversion north of Secs. 2 and 3-45-13-4.
 Diversion into Secs. 9 and 16-42-1-4.
 Diversion east of Sec. 14-42-1-4.
 Diversion north of Sec. 12-42-1-4.
 Diversion east of Sec. 27-42-1-4.
 Diversion through Sec. 9-50-5-4.
 Diversion north of Sec. 34-42-1-4.
 Diversion east of Sec. 11-39-7-4.
 Diversion east of Secs. 14 and 23-39-7-4.
 Diversion into Secs. 1 and 2-39-7-4.
 Diversions west of Sec. 25-39-7-4. (2 Divs.)
 Diversions north of Sec. 22-39-7-4.
 Diversion south of Sec. 1-39-7-4.
 Diversion in Sec. 19-40-6-4.
 Diversion into Sec. 30-40-6-4.
 Diversion east of Sec. 35-38-7-4.
 Diversion east of Sec. 13-40-7-4.
 Diversion west of Sec. 33-40-6-4.
 Diversion east of Sec. 29-40-6-4.
 Diversion into Sec. 32-48-4-4, and into Sec. 5-49-4-4.
 Diversion east of Sec. 6-41-9-4.
 Diversion into Secs. 20, 21 and 29-41-9-4.
 Diversions into Sec. 28-41-9-4. (2 Divs.)
 Diversions into Secs. 8 and 17-42-9-4. (3 Divs.)
 Diversion south of Sec. 15-47-6-4.
 Diversion west of Sec. 2-50-3-4.
 Diversion west of Secs. 11 and 14-50-3-4.
 Diversions north of Sec. 11-50-3-4. (2 Divs.)
 Diversion into Secs. 26 and 27-49-3-4.
 Diversion west of Secs. 26 and 35-49-3-4.
 Diversion south of Sec. 28-49-2-4.
 Diversion west of Sec. 14-50-3-4.
 Diversion into Secs. 10 and 11-46-4-4.
 Diversion west of Sec. 12-36-6-4.
 Diversion west of Sec. 19-36-6-4.
 Diversion west of Sec. 16-36-6-4.
 Diversion west of Sec. 21-40-7-4.
 Diversion at corner of Secs. 23, 26 and 27-41-17-4, (change Farncomb's survey.)
 Diversion in north east $\frac{1}{4}$ of Sec. 6-51-8-4. (Change in old survey.)
 Diversion in Sec. 34-46-11-4. (Change in old survey.)
 Diversion east of Sec. 2-43-1-4, and east of Sec. 35-42-1-4.
 Diversion west of Sec. 3-51-12-4.
 Diversion into Secs. 35 and 36-43-5-4.

EXAMINATIONS, ETC.

Examination and report re diversion east of Sec. 14-43-14-4.
 Examination and report re road south and west from Hughenden.
 Examination and report re road through Sec. 18-39-2-4.
 Report survey not wanted east of Secs. 16, 21 and 28-43-1-4.
 Examination and report re survey in Sec. 12-43-10-4.
 Examination and report re subway at north-west corner of Sec. 16-51-5-4.
 Examination and report re road across Sec. 29-49-6-4.
 Examination and report re road south of Sec. 15-47-13-4.
 Examination and report re road in Sec. 14-46-19-4.
 Examination and report re road proposed north of Secs. 28 and 29-48-5-4.
 Examination and report re road north of Sec. 29-49-4-4.
 Examination and report re centre line of Secs. 2 and 11-36-6-4.
 Examination and report no survey required east of Sec. 36-43-1-4.
 Examination and report re road north of Secs. 15 and 16-39-15-4.

OTHER WORK.

Dug pits on diversion east of Sec. 10-40-5-4. (Mr. Stewart's survey.)
 Destroyed pits north of Sec. 27-42-17-4. (Mr. Stewart's survey.)
 Sub-divided cemetery on south-west $\frac{1}{4}$ of Sec. 29-45-14-4.
 Staked road for grading into Sec. 14-45-19-4. (Survey to be completed.)

Progress reports and sketches were forwarded to the department at the time the surveys and examinations were made.

A number of plans and field notes have already been forwarded to the department, the remainder are now in course of preparation.

I have the honour to be, Sir,

Your obedient servant,

LENNOX T. BRAY,

District Surveyor and Engineer.

WAINWRIGHT, ALTA., Dec. 31, 1914.

L. C. CHARLESWORTH, Esq.

Director of Surveys,

Edmonton, Alta.

REPORT RE EXPENSE OF RUNNING AUTOMOBILE

The roads in my district are fairly well suited for the use of an automobile, and with it I was able to make inspections and examinations which were widely scattered in the various parts, in which respect I found it a great advantage.

About three thousand miles were covered with it at an expense shown as follows:

Fuel (gasoline, oil, etc.)	\$74.50
Repairs	39.90
Storage (frosty weather)	1.00
	\$115.40

Plus price of two new tires from the department, and Mr. Hillier's time.

On closing the season's work I placed the car in storage at the department garage in Edmonton.

Your obedient servant,

LENNOX T. BRAY,

District Surveyor and Engineer.

EDMONTON, ALTA., Dec. 31, 1914.

L. C. CHARLESWORTH, Esq.,

Director of Surveys,

Edmonton, Alta.

Sir,—I have the honour to submit the following report on field work of self and party during the season of 1914.

In accordance with your instructions of March 10th, I shipped my outfit from Edmonton to Medicine Hat on April 18, and commenced survey work in that district on April 24.

The first half of the season was spent south of the Canadian Pacific Railway main line. A great deal of work had accumulated in that vicinity and I found it necessary to let some of it stand for another season in order not to totally neglect other parts of the district. North of the Canadian Pacific Railway main line and east of the South Saskatchewan River I made several trail surveys. The new roads are necessary in that vicinity on account of the fact that settlements have been made in between ranges of hills. In the settlements the road allowances are for the most part passable but the settlers require outlets through the hills to shipping points. From Empress we worked west along the Red Deer River, surveying grades to, and sites for the ferries. Four of these long surveys I let stand for another season, after referring the matter to headquarters. Between the Saskatchewan and the Red Deer rivers there were only a few surveys on schedule, but my impression is that when the Canadian Pacific Railway Bassano-Swift Current line is in operation that more requests will be received from that vicinity.

In October we moved north from the Red Deer River to the Canadian Northern Railway Calgary-Saskatoon line, thence east along it, doing all the work in that route.

In the middle of November a severe snow storm, followed by low temperature made conditions unfavourable to economic work so I shipped my outfit to Edmonton on November 16th.

On the whole the weather throughout the season was most favourable for surveying. During May, June, July and August there was practically no rain and in consequence very little lost time. In September, October and November we had several bad storms which were not appreciated by us as much as by the settlers, as the district was in great need of moisture.

I spent considerable time with the District Road Foreman and more particularly towards the end of the season with the foreman in charge of relief work, pointing out on the ground places on new roads and diversions I had made which required road work.

Attached hereto is a summary of the surveys made and examinations reported on.

I have the honour to be, Sir,

Your obedient servant,

A. G. STEWART,

District Surveyor and Engineer

NEW ROADS.

North of Sec. 3 and N. E. $\frac{1}{4}$ 4-11-11-4.
 In Secs. 1, 11, 12, 13, 14, Tp. 8, Rge. 11-4.
 In Secs. 20, 21, 29 and 30, Tp. 6, Rge. 11-4.
 In Secs. 10, 15, 22 and 27, Tp. 11-2-4.
 In Secs. 16, 21, 27, 34 and 3, Tp. 10/11-1-4.
 In Secs. 25, 36, 31, 32 and 6, Tps. 15/16-3/4-4.
 In Secs. 13, 14 and 23, Tp. 7-9-4.
 In Secs. 33 and 3, 4, 5, 7, 8 and 9, Tps. 21/22-12-4.
 In Secs. 26, 27, 34, 32, 33 and 5, Tps. 13/14-7-4.
 North of Secs. 25, 26, 27, 28 and 29, Tp. 12-4-4.

Through Tps. 6 and 7, Rgs. 3, 4 and 5-4.
 In Secs. 24, 25, 36, 1, 2 and 11, Tps. 20/21-11-4.
 In Secs. 5, 6, 8, 9 and 16, Tp. 14-3-4 and diversions in Secs. 2-14-4-4 and
 Sec. 35-13-4.
 In Secs. 16, 21, 28 and 27, Tp. 5-11-4.
 In Secs. 34, 27, 22, 15 and 14, Tp. 23, Rge. 1-4.
 In Secs. 2, 3, 4, 9, 10 and 16, Tp. 22, Rge. 9-4.
 In Secs. 3, 10 and 15, Tp. 3, Rge. 6-4.
 In Secs. 2, 3, 4, 5 and 33, Tps. 13/12, Rge. 2-4.
 In Secs. 25 and 36, Tp. 22, Rge. 2-4.

DIVERSIONS.

In Secs. 32-8-9-4.
 In Secs. 6 and 7, Tp. 9-5-4.
 In Secs. 19-11-11-4.
 In Secs. 18, 13 and 24, Tp. 7, Rgs. 6/7-4.
 In Sec. 2-9-7-4.
 In Secs. 25 and 36, Tp. 7, Rge. 7-4.
 In Sec. 3-11-11-4.
 In Secs. 26 and 35, Tp. 6, Rge. 11-4.
 In Sec. 36-6-12-4.
 In Secs. 1, 6, 7, 12, 18, 31 and 36, Tps. 8, Rgs. 5/6-4.
 In Secs. 6, 1 and 12, Tp. 6, Rgs. 5/6-4.
 In Secs. 24 and 25, Tp. 7, Rge. 8-4.
 In Sec. 3-11-3-4.
 In Sec. 15-11-8-4.
 In Secs. 16 and 21, Tp. 10-7-4.
 In Secs. 4 and 5, Tp. 10, Rge. 7-4.
 In Secs. 13 and 4, Tp. 11-7-4.
 In Sec. 24-12-7-4.
 In Sec. 14-12-8-4.
 In Sec. 15, 21, 22 and 33, Tp. 14-4-4.
 In Sec. 15-9-6-4.
 In Secs. 32, 33, 3 and 4, Tp. 22/23-13-4.
 In Secs. 22 and 28, Tp. 23-13-4.
 In Secs. 21 and 29, Tp. 26, Rge. 12-4.
 In Sec. 14-24-13-4.
 In Sec. 33-22-12-4.
 In Sec. 11, Tp. 14, Rge. 6-4.
 In Sec. 24 and 25, Tp. 9-8-4.
 In Secs. 34, 35 and 3, Tps. 5/6-10-4.
 In Secs. 27, 28 and 33, Tp. 8-11-4.
 In Sec. 19-11-10-4.
 In Secs. 32 and 33, Tp. 10-11-4.
 In Secs. 18 and 24, Tp. 7, Rgs. 5/6-4.
 In Sec. 25-6-6-4.
 In Sec. 22-28-7-4.
 In Secs. 33 and 34, Tp. 27-1-4.
 In Secs. 7 and 18, Tp. 6-5-4.
 In Secs. 10 and 15, Tp. 6-5-4.
 In Sec. 34-12-3-4.
 In Sec. 32-27-4-4.
 In Sec. 4-28-2-4.
 In Sec. 8-27-3-4.
 In Sec. 6-28-3-4.
 In Sec. 13-27-2-4.
 In Secs. 35 and 3, Tps. 27/28, Rge. 2-4.
 In Sec. 26-28-2-4.
 In Sec. 22-28-2-4.
 In Sec. 28-27-3-4.
 In Secs. 18 and 1, Tp. 13, Rgs. 2 and 3-4.

EXAMINATIONS.

Examination of road allowance north Secs. 21, 22 and 23, Tp. 29-28-4.
 Examination of road allowance east of Sec. 14-10-7-4.
 Examination road allowance west Sec. 9-12-2-4.
 Examination road allowance and blind lines adjoining Secs. 9, 10, 11 and
 12, 13, 14 and 15, Tp. 13, Rge. 7-4.

Examination road allowance east Sec. 35-13-6-4.
 Examination of diversion in Sec. 34-10-2-4.
 Examination of trail and road allowances in Tps. 7/8-5-4.
 Examination of road allowance north of Sec. 36-11-3-4.
 Examination of road allowance north Sec. 9-22-12-4.
 Examination range line between 1 and 2, Tps. 12/13-4.
 Examination north of Secs. 10, 11 and 12, Tp. 12-8-4.
 Examination approaches to and ferry site in Tp. 22-5-4.
 Examination proposed Canadian Pacific Railway diversion in Sec. 8-11-6-4.
 Examination re proposed irrigation works affecting road allowance adjoining Secs. 10/19, Tp. 1-1-4.
 Examination road allowances east of Secs. 30, 31, 25 and 36, Tp. 9, Rgs. 7/8-4.
 Examination respecting railway crossings south of Sec. 27-11-6-4.
 Examination respecting railway crossings in Sec. 1-12-6-4.
 Examination re proposed change in location of road in Sec. 28-38-27-4.
 Examination re proposed change in surveyed road in Secs. 20, 21 and 29, Tp. 8, Rge. 4-4.
 Examination of Block 156, Strathcona.
 Location of Lots 13 and 14, Block 33, Medicine Hat, for Telephone Building.

EDMONTON, ALTA., Dec. 31, 1914.

Sir,—I have the honour to submit the following report in connection with the work performed by myself and party during the season of 1914, in the district of North Alberta.

I organized my party at Edmonton and shipped to Athabasca on March 11. I then drove from there to Grande Prairie by way of Grouard and Sturgeon Lake, reaching Saskatoon Lake on the 25th of March. After storing my supplies I moved on to Beaver Lodge and commenced work on the Pouce Coupe trail. I carried the survey as far as the British Columbia line, which the trail crosses just south of Swan Lake. I then moved back and made all necessary surveys in the Beaverlodge and Redwillow districts and worked east to Saskatoon Lake. I then worked north and east to the Beaver dams.

As this finished the work on the west end of the prairie I started north for Dunvegan on July 30. From there I surveyed the Crossing trail to Bricks where I tied on to Mr. Belyea's survey of 1911.

I then made a few surveys around the Crossing and moved back to Prairie City, making a few odd surveys as we moved along. I then made all the necessary surveys on the east end of the prairie, finishing the season at Prairie City.

I stored my outfit there and left for Edmonton by way of Sturgeon Lake and High Prairie, reaching Edmonton on December 9.

Attached herewith you will find a detailed report of my season's work under the heads of "Divisions," "New Roads," "Examinations," and "Miscellaneous."

Your obedient servant,

E. D. ROBERTSON,

District Surveyor and Engineer.

L. C. CHARLESWORTH, ESQ.,

Director of Surveys,

Edmonton, Alta.

DIVERSIONS.

Diversion in Secs. 7 and 8, Tp. 81-3-6.
 Diversion in N. E. $\frac{1}{4}$ 25-71-10-6.
 Diversion in Secs. 23 and 26-71-10-6.
 Diversions in Secs. 7, 17 and 18-71-9-6.
 Diversion in Sec. 29-73-6-6.
 Diversion in S. W. $\frac{1}{4}$ 3-73-8-6.
 Diversion in N. E. $\frac{1}{4}$ Sec. 2-73-8-6.
 Diversion in Secs. 23, 25 and 26, Tp. 73-8-6.
 Diversion in S. W. $\frac{1}{4}$ Sec. 3-74-7-6.
 Diversion in N. W. $\frac{1}{4}$ Sec. 11-73-8-6.
 Diversion in N. E. $\frac{1}{4}$ Sec. 8-72-6-6.
 Diversion in W. $\frac{1}{2}$ Sec. 15 and S. W. $\frac{1}{4}$ Sec. 22-71-8-6.
 Diversion in Secs. 20 and 17, Tp. 73-8-6.
 Diversion in E. $\frac{1}{2}$ Sec. 33-73-7-6.
 Diversion in E. $\frac{1}{2}$ Sec. 5-74-7-6.
 Diversion in Secs. 22 and 27, Tp. 73-8-6.
 Diversion in Secs. 21 and 22, Tp. 74-8-6.
 Diversion in N. E. $\frac{1}{4}$ Sec. 10-72-6-6.
 Diversion in S. W. $\frac{1}{4}$ 13-72-6-6.
 Diversion in N. E. $\frac{1}{4}$ Sec. 32-71-5-6.
 Diversion in Secs. 27 and 34-71-6-6.
 Diversion in Secs. 12 and 13, Tp. 71, Rge. 6-6.
 Diversion in S. W. $\frac{1}{4}$ Sec. 33-72-5-6.
 Diversion in S. $\frac{1}{2}$ Sec. 2-72-5-6.
 Diversions in Secs. 33 and 4, Tp. 72/73, Rge. 7-6.
 Diversions in S. $\frac{1}{2}$ Sec. 18-73-5-6.
 Diversions in S. $\frac{1}{2}$ Sec. 4-73-5-6.
 Diversions in S. W. $\frac{1}{4}$ Sec. 2-73-8-6.
 Diversion in Secs. 6/7, Tp. 73-7-6.
 Diversion in W. $\frac{1}{2}$ Sec. 22-81-25-5.
 Diversion in N. W. $\frac{1}{4}$ Sec. 19-71-2-6.

NEW ROADS.

New road across Secs. 2, 3, 4 and 5, Tp. 72-8-6.
 Dunvegan and Peace River Crossing trail in Tps. 80 and 81, Rge. 4-6;
 Tp. 82, Rgs. 1 and 2-6 and Tp. 82, Rgs. 23 to 26-6.
 Pouce Coupe' trail in Tps. 73 and 74, Rge. 12-6, and Tp. 75, Rgs. 12 and
 13-6, and diversion in Secs. 27 and 34, Tp. 72, Rge. 10-6.
 New road in Sec. 29-83-21-5.
 New road N. of Secs. 2 and 3, Tp. 74-7-6.
 New road in Sec. 36-72-8-6.
 New road in Sec. 33, 34 and 35, Tp. 73-8-6.
 New road in Sec. 15-72-8-6.
 New road in Secs. 30 and 25, Tp. 73, Rgs. 6 and 7-6.
 New road in Secs. 18 and 19, Tp. 72-7-6.
 New road N. of Secs. 26 and 27, Tp. 72-8-6.
 New road in Secs. 28, 29 and 32, Tp. 72-3-6.
 New road S. of Sec. 22-71-6-6.
 New road N. of Secs. 27, 28 and 29, Tp. 71-3-6.
 New road in Secs. 4, 7, 8 and 9, Tp. 72-5-6.
 New road in Secs. 26, 27 and 28, Tp. 72-4-6.
 New road in Secs. 30 and 31, 71-5-6.
 New road in Secs. 5 and 6, Tp. 73-7-6.
 New road in Sec. 7-80-4-6.

EXAMINATIONS.

Examination north of Sec. 18-73-5-6.
 Examination in River Lots 38, 39 and 40, Shaftsbury Settlement.
 Examination in River Lots 5, 6, 7 and 8, Shaftsbury Settlement.
 Examination east of Sec. 28-72-4-6.
 Examination on trunk road Saskatoon Lake-Beaver Lodge.
 Examination north of Sec. 31-71-3-6.
 Examination north of Secs. 19 and 24, Tp. 81, Rgs. 3 and 4-6.

MISCELLANEOUS.

Change in survey in Sec. 15-71-8-6.

Change in survey in Secs. 6 and 7, Tp. 80, Rge. 4-6.

Profile along cable line and of approaches and triangulation of Peace River at Peace River Crossing.

Profile along cable line and of approaches and triangulation of Peace at both crossings at Dunvegan.

Profile along cable line and of approaches and triangulation of Smoky River at Goodwin's Crossing.

Profile of hills at Dunvegan.

Profile of hill at Brick's.

Profile of hill at Peace River Crossing.

Profile of hills at Goodwin's Crossing of Smoky.

Measured up and took cross section at bridges Nos. 7064, 7076, 7075, 6920, 7409, 7077, 7421, 7301, 1638, 7422, 7318, 8063, 6922, 1481, 7233, 1158, 1162, 6816, 7078, 7079, 7156, 7158, 7157, 7809, 7847, 6926, 8082, 6716, 2010, 7761.

CALGARY, December 16, 1914.

Sir,—I have the honour to submit the following report of the work performed by myself and party during the year 1914.

During the winter months I was occupied with office work, during which time I made several urgent surveys and some trips of examination. Early in April I organized my party and started work north-east of Acme. We completed nearly all the surveys between Acme and the Red Deer River and a few north-east of the river in the vicinity of Morrin. North of this point I found that Mr. A. S. Stewart had completed some of the surveys for which I had instructions so decided to recross the Red Deer River and work in a westerly direction. I completed all necessary surveys, many of them without instructions but asked for by the municipal authorities, as far north as Township 32, from the Red Deer River to the foothill country west of Didsbury. I then moved south to the Cochrane district, completing my season's work north of Morley.

During the first part of the season we lost little time on account of rain but in September, October and November, several snow storms held up the work considerably, which storms I believe, were not confined, however, to the foothill country.

On account of the large number of outstanding surveys in the north-east portion of my district I did not cover as much territory as I wished but on the whole had a very successful season.

I find that one cannot outline the season's work with regard to the time to be spent in certain districts as so many surveys not on the schedule are asked for by the municipal and local improvement district councillors when on the ground. However, I try to clear up all surveys within reach of my route so as to eliminate the necessity of doubling back season after season. This we cannot avoid entirely as the necessity of surveys seems to arise soon after passing out of the district.

During the year I made a great many trips with Mr. Calder, Inspector of Public Works, staking out new roads and giving grades

to the road foremen who were doing the grading. Some of these I surveyed later, others will have to be attended to when my party is in the vicinity.

Attached is a list of surveys and examinations.

Your obedient servant,

W. H. YOUNG,

District Surveyor and Engineer.

L. C. CHARLESWORTH, Esq.,

Director of Surveys,

Edmonton, Alta.

NEW ROADS.

Survey of new road across Secs. 22/23, Tp. 34-1-5.
 Survey of new road in Secs. 35 and 36, Tp. 20-19-4.
 Survey of new road in Secs. 9, 10, 15, 16, 17, Tp. 31-21-4.
 Survey of new road quarter line Secs. 17 and 18, Tp. 32-4-5.
 Survey of new road Secs. 11, 12, 13, Tp. 26-4-5; Secs. 18, 19, 20, 21, 28, 29, 32, Tp. 26-3-5 and Secs. 4 and 5, Tp. 27-3-5.
 Survey of new road Secs. 20 and 21, Tp. 26-6-5 and River Lots 7 and 8, Morleyville Settlement.
 Survey of new road quarter line Sec. 24, Tp. 31-23-4.

DIVERSIONS.

Diversion N. E. Sec. 10, Tp. 31-3-5.
 Diversion S. W. $\frac{1}{4}$ Sec. 9, Tp. 31-22-4.
 Diversion N. E. $\frac{1}{4}$ 17 and S. E. $\frac{1}{4}$ Sec. 20-31-22-4.
 Diversion Sec. 21, Tp. 31-23-4.
 Diversion S. W. $\frac{1}{4}$ Sec. 27, Tp. 31-23-4.
 Diversion S. E. $\frac{1}{4}$ Sec. 23 and E. $\frac{1}{2}$ Sec. 26, Tp. 31-23-4.
 Diversion (change) N. W. $\frac{1}{4}$ Sec. 14, Tp. 29-20-4.
 Diversion Secs. 6 and 1, Tp. 30-4/5-5.
 Diversion N. E. $\frac{1}{4}$ Sec. 20, Tp. 31-22-4.
 Diversion E. $\frac{1}{2}$ Sec. 26, Tp. 31-23-4.
 Diversion S. E. $\frac{1}{4}$ Sec. 29 and S. W. $\frac{1}{4}$ 28, Tp. 31-22-4.
 Diversion S. W. $\frac{1}{4}$ Sec. 30 and N. E. $\frac{1}{4}$ Sec. 25, Tp. 31-22/23-4.
 Diversion S. W. $\frac{1}{4}$ Sec. 17 and S. E. $\frac{1}{4}$ Sec. 18, Tp. 31-22-4.
 Diversion Sec. 36, Tp. 30-22-4 and Sec. 6, Tp. 31-21-4.
 Diversion Secs. 15/22, Tp. 31-2-5.
 Diversion N. E. $\frac{1}{4}$ Sec. 22, Tp. 31-3-5.
 Diversion S. W. $\frac{1}{4}$ Sec. 19, Tp. 32-3-5.
 Diversion Sec. 13, Tp. 32-26-4.
 Diversion S. E. $\frac{1}{4}$ Sec. 14, Tp. 31-3-5.
 Diversion S. W. $\frac{1}{4}$ Sec. 29, Tp. 32-23-4.
 Diversion Secs. 25/36, Tp. 29-4-5.
 Diversion S. W. $\frac{1}{4}$ Sec. 13, Tp. 32-4-5.
 Diversion N. E. $\frac{1}{4}$ Sec. 15, Tp. 29-4-5.
 Diversion Secs. 22/27, Tp. 31-23-4.
 Diversion S. E. $\frac{1}{4}$ Sec. 11, Tp. 32-4-5.
 Diversion N. W. $\frac{1}{4}$ Sec. 12, Tp. 31-3-5.
 Diversion Secs. 21/28-32-23-4.
 Diversion (change) N. E. $\frac{1}{4}$ Sec. 1, Tp. 26-4-5.
 Diversion in S. W. Sec. 25, Tp. 32-25-4.
 Diversion Secs. 28/33/34, Tp. 31-5-5, and S. W. $\frac{1}{4}$ Sec. 3, Tp. 32-5-5.
 Diversion in S. W. $\frac{1}{4}$ of Sec. 5, Tp. 32-4-5.
 Diversion in N. E. 36 and S. E. 1, Tps. 31/32-5-5.
 Diversion in N. E. 33 and S. E. 4, Tps. 31/32-4-5.
 Diversion N. W. 35 and S. W. 2, Tps. 31/32-5-5.
 Diversion Secs. 7/8/17, Tp. 32-25-4.

Diversion Secs. 15/16/21, Tp. 32-25-4.
 Diversion Secs. 9/16, Tp. 31-22-4.
 Diversion Secs. 31/36, Tp. 32-24/25-4.
 Diversion Secs. 19 and 30, Tp. 32-22-4 and Sec. 25, Tp. 32-23-4.
 Diversion in S. W. Sec. 3, Tp. 32-25-4.
 Diversion N. W. Sec. 35, Tp. 31-24-4.
 Diversion N. E. Sec. 4, Tp. 31-23-4.
 Diversion W. $\frac{1}{2}$ Sec. 16 and N. E. 17, Tp. 31-1-5.
 Diversion in S. E. $\frac{1}{4}$ Sec. 17, Tp. 32-24-4.
 Diversion S. E. $\frac{1}{4}$ Sec. 33, Tp. 31-23-4.
 Diversion N. $\frac{1}{2}$ Sec. 21, Tp. 29-24-4.
 Diversion Secs. 34/35, Sec. 1, Tps. 30/31-20-4.
 Diversion S. W. $\frac{1}{4}$ Sec. 35, Tp. 29-25-4.
 Diversion Secs. 31/36-30-22/23-4.
 Diversion Secs. 4/5, Tp. 31-22-4.
 Diversion Sec. 34/2, Tps. 30/31-23-4.
 Diversion N. W. $\frac{1}{4}$ Sec. 22, Tp. 30-23-4.
 Diversion Sec. 3, Tp. 32-24-4.
 Diversion section 6, Tp. 19-28-4.
 Diversion Secs. 36/1, Tps. 31/32-22-4.
 Diversion W. $\frac{1}{2}$ Sec. 14, Tp. 31-3-5.
 Diversion E. Sec. 1, Tp. 32-4-5.
 Diversion N. W. Sec. 32, Tp. 30-18-4.
 Diversion (Bragg Creek) Secs. 9, 10, 11, 12, 13, 14, 15 and 16, Tp. 23-5-5.
 Diversion (change) Sarcee I. R.

EXAMINATIONS.

Examination in Sec. 19, Tp. 29-20-4.
 Examination N. E. Sec. 12, Tp. 32-5-5.
 Examination road N. E. Sec. 27, Tp. 29-21-4.
 Examination Sec. 7, Tp. 29-27-4.
 Examination of road E. $\frac{1}{2}$ Sec. 36, Tp. 30-5-5.
 Examination of trail S. E. from Morley, Tp. 25-6-5.
 Examination of road allowance between Secs. 24/25-31-2-5.
 Examination Sec. 18, Tp. 32-23-4.
 Examination of road allowance Secs. 16/17, 20/21, Tp. 32-25-4.
 Examination (check) Sec. 28, Tp. 22-23-4.
 Examination mounds, etc., Sec. 28, Tp. 30-4-5.
 Examination of roads Sec. 19, etc., Tp. 29-5-5.
 Examination and staking grades Secs. 28/29-21-27-4.
 Examination and staking grades Sec. 21-28-32, Tp. 21-25-4.
 Examination of roads between Secs. 22/27, Tp. 31-4-5.
 Examination road leading to bridge in Sec. 3, Tp. 31-22-4.
 Examination and staking grades on trail in Sec. 30, 31, 32, Tp. 14-28-4.
 Railway crossing cross section Sec. 6, Tp. 19-28-4.
 Examination of road N. Sec. 9, Tp. 30-18-4.
 Examination and cross section railway N. Sec. 36, Tp. 23-26-4.
 Examination and cross section railway N. Sec. 19, Tp. 23-24-4.
 Examination re bridging C. P. R. Main Irr. canal W. Sec. 31, Tp. 20-18-4.
 Examination of roads N. Sec. 7/8, Tp. 25-22-4.
 Cross section railway Sec. 12, Tp. 31-2-5.
 Examination re draining slough E. of Sec. 3, Tp. 30-28-4.
 Examination of surveyed diversion between Secs. 16/17, Tp. 29-23-4.
 Examination of roads Secs. 8, 9, 10, 11, Tp. 29-20-4.
 Examination and taking grades Secs. 1 and 2, Tp. 29-20-4.
 Examination of diversion (C.P.R.) S. W. $\frac{1}{4}$ Sec. 14, Tp. 27-26-4.
 Examination of diversion (C.P.R.) S. W. $\frac{1}{2}$ of Sec. 2, Tp. 27-26-4.
 Examination of diversion (C.P.R.) N. W. $\frac{1}{4}$ Sec. 26, Tp. 26-26-4.
 Examination road allowance E. Sec. 16/21, Tp. 25-2-5.
 Examination road E. Secs. 25/36, Tp. 19-21-4; E. Secs. 2/11, Tp. 20-21-4.
 Examination of road allowance N. Sec. 12, Tp. 28-23-4.
 Examination road allowance E. and N. Sec. 31, Tp. 22-24-4.
 Examination roads Secs. 11, 13, 14, Tp. 32-25-4.
 Examination and staking roads Secs. 25, 26, 27, 28, 29, 31, 33 and 34, Tp. 13-24-4.
 Examination roads and bridge site Secs. 15/16, Tp. 26-23-4.
 Examination roads and bridge site Secs. 10/15, Tp. 27-22-4.
 Examination staking grade N. Sec. 21, Tp. 30-21-4.

LACOMBE, ALBERTA, Dec. 19, 1914.

Sir,—I beg to submit the following report in connection with the work performed in the Lacombe Public Works District during the year 1914.

At the beginning of the year my time as usual was devoted in preparing the returns of the previous season's surveys.

On the 9th day of March, instructions were issued to give early attention to those requests for surveys which had been outstanding for a number of years, in the new territory to the south which has been added to my district, and accordingly before organizing my party, I covered as much of the country as possible in my car, making examinations, this action had the result in the saving of considerable time for my outfit.

On the 13th of April, I organized my party and moved toward the south. After completing a few surveys in the neighborhood of Penhold and Innisfail, I moved to the Rural Municipality of Starland where there were urgent surveys required. From here I moved to Trochu as instructions were given to complete the survey to the west of the town, making northward toward Pine Lake and Delburne. From here I pulled in the district to the east near Halkirk to make some urgent surveys, thence back to the vicinity of Big Valley. By this time the season was well advanced, and in this particular vicinity a number of surveys was left over as I was unable to attend to them, but hope to be able to reach them next season. The district west of Lacombe received my attention for the balance of the season and on the 4th day of December I pulled my outfit to headquarters and disbanded.

This season has been most favourable for field operations; considerable time was lost, however, in some extra long moves, caused on account of the urgent surveys being so widely scattered. The surveys to the west of Innisfail and Olds, also a few in the neighborhood of Huxley and Delburne have been left over for attention next season. My schedule being such a lengthy one, I was unable to complete the list this year, although I would like to have done so.

The remainder of the year was spent in the office preparing plans and field notes.

Attached hereto is a schedule showing the work done, and classified as "New Roads," "Road Diversions," "Examinations," and "Miscellaneous."

I have the honour to be, Sir,

Your obedient servant,

A. S. STEWART,

District Surveyor and Engineer.

L. C. CHARLESWORTH, ESQ.,

Director of Surveys.

Edmonton, Alta.

NEW ROADS.

New road in Secs. 13/18-33-24/23-4.
 New road in Secs. 6/7/18/19-36-20-4.
 New road along blind line E. and W. from Big Valley in Tp. 35-19/20-4.
 New road in S. E. 21, S. W. 22, N. $\frac{1}{2}$ Sec. 15 and W. $\frac{1}{2}$ Sec. 14, Tp. 36-19-4.
 New road in Tp. 42-4/5-5.
 New road along the blind line and $\frac{1}{4}$ line W. from Rumsey in Tp. 33-21/22-4.
 New road along the $\frac{1}{4}$ line S. of the N. W. 24-33-21-4.
 New road N. of Sec. 4-33-20-4.
 New road along the $\frac{1}{4}$ line in Sec. 35-31-21-4.
 New road on $\frac{1}{4}$ line in N. $\frac{1}{2}$ Sec. 23-31-21-4.
 New road along the blind line N. of Secs. 16/17/18, Tp. 38-15-4.
 New road along the $\frac{1}{4}$ line of Sec. 4-41-2-5.

ROAD DIVERSIONS.

Diversion in N. W. 24-36-1-5.
 Diversion between Secs. 19/24-36-27/28-4.
 Diversion in S. W. 1-35-24-4.
 Diversion in N. W. 12-34-21-4.
 Diversion N. W. 11-33-23-4.
 Diversion in N. W. 9-33-23-4.
 Diversion in Sec. 6-36-28-4, change.
 Diversion E. of Secs. 11/14-36-23-4.
 Diversion in S. W. 30-34-20-4.
 Diversion in S. E. 19 and W. $\frac{1}{2}$ Sec. 20-33-26-4.
 Diversion in N. E. 11-35-24-4.
 Diversion in S. W. 17 and N. W. 8-34-21-4.
 Diversion in S. W. 25-36-27-4.
 Diversion in S. E. 6-43-27-4.
 Diversion between Secs. 27/28 and 33/34-40-2-5.
 Diversion in N. E. 34-36-27-4.
 Diversion in N. W. 4, E. $\frac{1}{2}$ Sec. 8 and S. W. 16-37-24-4.
 Diversion in N. E. 3-36-25-4.
 Diversion in S. E. 2-33-27-4.
 Diversion E. from Rowley in Tp. 32-19/20-4.
 Diversion in S. E. 15-36-20-4.
 Diversion in W. $\frac{1}{2}$ Sec. 11, W. $\frac{1}{2}$ Sec. 2 and S. E. 3-36-20-4 and N. $\frac{1}{2}$ Sec. 35-35-20-4.
 Diversion in S. E. 29, N. $\frac{1}{2}$ Sec. 21 and S. $\frac{1}{2}$ Sec. 27-35-20-4.
 Diversion in N. E. 11, S. E. 14, N. W. 12 and S. $\frac{1}{2}$ Sec. 13-35-19-4, and S. W. 18 and N. W. 7-35-18-4.
 Diversion in N. W. 30 and S. W. 31-37-20-4.
 Diversion E. from Scollard, N. of Secs. 19 to 24-34-20-4.
 Diversion in N. E. 26 and S. E. 35-34-25-4.
 Diversion in S. E. 29-35-25-4.
 Diversion in S. W. 16 and S. $\frac{1}{2}$ Sec. 17-35-22-4.
 Diversion in S. E. 2-39-16-4.
 Diversion in S. $\frac{1}{2}$ Sec. 15-39-3-5.
 Diversion in S. E. 25-36-25-4, change.
 Diversion in S. W. 3-39-25-4.
 Diversion in N. E. 22-46-1-5, change.
 Diversion in S. E. 16-38-26-4, change.
 Diversion in W. $\frac{1}{2}$ Sec. 5-42-4-5.
 Diversion in N. W. 22-33-21-4.
 Diversion in S. W. 20-31-19-4.
 Diversion in N. W. 7-31-19-4.
 Diversion in N. $\frac{1}{2}$ Sec. 35-32-21-4.
 Diversion in N. W. 22-32-21-4.
 Diversion in N. W. 4-34-18-4.
 Diversion in N. W. 29-36-20-4.
 Diversion in N. E. 10-36-20-4.
 Diversion in N. W. 31-46-25-4.
 Diversion in S. W. 21-37-24-4.
 Diversion in N. E. 20 and S. W. 29-37-24-4.
 Diversion in N. E. 34-33-21-4.

Diversion in S. W. 18 and N. W. 7-36-20-4, and N. E. 12 and S. $\frac{1}{2}$ Sec 13-36-21-4.

Diversion in W. $\frac{1}{2}$ Sec. 16-33-22-4.

Diversion in N. $\frac{1}{2}$ Sec. 36-40-3-5.

Diversion in S. E. 13-41-3-5.

Diversion in E. $\frac{1}{2}$ Sec. 33-41-2-5.

Diversion in N. W. 22-37-19-4.

Diversion in N. W. 19-40-25-4.

Diversion in W. $\frac{1}{2}$ Sec. 8-38-19-4.

Diversion in N. E. 11, S. E. 14 and S. W. 13-41-26-4.

Diversion in N. W. 9 and N. $\frac{1}{2}$ Sec. 11-34-25-4.

Diversion in Sec. 31-40-2-5, change.

Diversion in S. W. 27-37-24-4, change.

Diversion in N. E. 18 and W. $\frac{1}{2}$ Sec. 17-37-24-4.

Diversion in N. W. 21, S. E. 28 and S. $\frac{1}{2}$ Sec. 27-36-19-4.

Diversion S. $\frac{1}{2}$ Sec. 18, N. E. 7, N. W. 8 and S. $\frac{1}{2}$ Sec. 17-36-19-4.

Diversion in N. W. 10 and S. W. 15-39-27-4, change in old C and E Trail.

Diversion in S. W. 5-36-20-4.

Diversion in S. E. 23-40-5-5.

Diversion in N. W. 22-40-23-4.

Diversion in S. E. 21-41-18-4, change.

EXAMINATIONS.

Examination of Tp. line between Tps. 34/35-28-4.

Examination in N. W. 27 and S. W. 34-35-1-5.

Examination in Tp. 33-6/7-5.

Examination between Secs. 7/18-34-23-4.

Examination in the centre of Secs. 32/33/34-35-1-5.

Examination in Sec. 36-35-2-5.

Examination between Secs. 5/6 and 7/8-35-2-5.

Examination S. of Sec. 1-33-23-4.

Examination in Sec. 2-34-21-4.

Examination between Secs. 3/4-36-28-4.

Examination in Sec. 3-33-22-4.

Examination S. of Tp. 37-25-4.

Examination in Secs. 23/24/25/26-34-21-4.

Examination S. of the S. W. 6-31-20-4.

Examination of blind line between Secs. 25/36-35-19-4.

Examination between Secs. 1/2-31-20-4.

Examination S. of Sec. 34-35-2-5.

Examination in S. W. 28-35-18-4.

Examination between Secs. 20/21 and 28/29-36-18-4.

Examination in the W. $\frac{1}{2}$ Sec. 22-34-27-4.

Examination between Secs. 10/11-34-28-4.

Examination in Secs. 5/6-39-23-4.

Examination in Secs. 27/34-36-25-4.

Examination between Secs. 3/4-36-25-4.

Examination in S. E. 18-31-19-4.

Examination of C. and E. Trail in S. E. 13-40-27-4.

Examination in Secs. 26/35 and 2/11 and 40/41-28-4.

Examination W. of Sec. 6-41-2-5.

Examination in Secs. 15/16/21/22-40-2-5.

Examination between Secs. 31/32-37-19-4.

Examination in Secs. 6/7 and Sec. 12-44-1/2-5.

Examination in S. E. 26-39-5-5.

Examination between Secs. 28/29-39-28-4.

Examination E. of the S. E. 13-40-20-4.

Examination of $\frac{1}{4}$ line in Sec. 5-35-28-4.

Examination between Secs. 13/14-35-1-5.

Examination of blind line north of Secs. 4/5-39-27-4.

Examination for townsite in S. W. 20-39-7-5.

Examination between Secs. 34/35-42-26-4.

Examination in Sec. 35-37-28-4.

Examination in S. W. 17-36-4-5.

MISCELLANEOUS.

Survey of drain in S. $\frac{1}{2}$ Sec. 3-42-4-5, and in N. E. 34-41-4-5.

Survey of Lot 10, Block 4, Aspern Subdivision, Gull Lake.

EDMONTON, ALTA., Dec. 31, 1914.

Sir,—I have the honour to submit the following report respecting surveys made and other work done in the South Alberta District during the year 1914.

Owing to the open season I was able to continue survey operations until January 20, when the ground was frozen, and I broke camp for the winter.

I received a telephone call from Mr. Stocks on January 13, asking me to go to Edmonton and relieve Mr. L. C. Charlesworth who was leaving for six weeks. I, therefore, made arrangements and left Lethbridge for Edmonton on the 15th and went into Mr. Charlesworth's office on the 16th, where I remained until February 3, when I returned to Lethbridge.

While in Mr. Charlesworth's office I employed my spare moments in copying field notes and making some plans.

My assistant was occupied with miscellaneous work until March 23, when field work was again taken up in Township 13, Range 28, west of the 4th Meridian. From there we worked west and north as far as the north boundary of Township 14, Ranges 28 and 29, west of the 4th Meridian. We then turned south along the east slope of the Porcupine Hills, clearing up all necessary surveys lying within reach. We went as far south as Brocket and then turned north-west along the valley of Beaver Creek and vicinity, then across the summit of the Porcupine Hills to the Livingstone River. We then followed south from the north boundary of Township 9 through Ranges 1, 2 and 3, west of the 5th Meridian, to Castle River in Township 6, Ranges 2 and 3, west of the 5th Meridian. From there we worked easterly through Lundbreck, Cowley, Pincher City, Pincher Creek and Fishburn to the Waterton River bridge in Section 31, Township 5, Range 26, west 4th Meridian.

On the 16th of December I let two of my men go, and despatched the other two with the outfit via Cardston to Raymond, where the outfit was stored and horses taken to pasture on the 21st.

The season was good for survey work till October. After that a considerable amount of snow fell at intervals which interfered some with the work.

Following is a list of surveys and examinations.

I have the honour to be, Sir,

Your obedient servant,

R. J. GORDON,

District Surveyor and Engineer.

L. C. CHARLESWORTH, ESQ.,

Director of Surveys.

Edmonton, Alta.

NEW ROADS.

- In Secs. 25/36, Tp. 7, Rge. 3-5.
- In Sec. 30-9-29-4; Secs. 25, 26 and 27, Tp. 9, Rge. 30-4; and Secs. 25, 24, 23, 22, 16, 17, 5 and 4, Tp. 9, Rge. 1-5.
- In Tp. 13, Rgs. 28/29-4.
- In Secs. 21, 28, 33 and 34, Tp. 11, Rge. 29-4, and Sec. 2-12-29-4.
- In Secs. 7, 18 and 19, Tp. 9, Rge. 28-4.
- In Tp. 14, Rgs. 28 and 29-4.

EXAMINATIONS.

- In Secs. 16, 17, 20, 21 and 30, Tp. 9, Rge. 28-4.
- In Secs. 3, 4, 9 and 10, Tp. 9, Rge. 2-5.
- In Secs. 16 and 17, Tp. 9, Rge. 2-5.
- In Secs. 24 and 25, Tp. 8, Rge. 2-5.
- In Secs. 10/15, Tp. 8, Rge. 2-5.
- In Sec. 25-7-2-5.
- Examination of road allowance W. Secs. 28/33, Tp. 7, Rge. 30 4.
- In Secs. 5, 8, 17, 18, 19 and 30, Tp. 8, Rge. 2-5.
- In Secs. 2/12-5-1-5.
- In Sec. 31-14-28-4 and Sec. 25-14-29-4.
- In Secs. 29, 30 and 32, Tp. 14, Rge. 28-4.
- In Secs. 8, 17, 20, 21 and 27, Tp. 7, Rge. 2-5.
- In Tp. 6, Rgs. 2/3-5, north of Castle River.
- In S. E. $\frac{1}{4}$ Sec. 12-9-3-5.
- In Secs. 30/31, Tp. 9, Rge. 2-5.
- N. of Secs. 5 and 6, Tp. 9, Rge. 29-4.
- Between Secs. 4 and 9, Tp. 10, Rge. 2-5.
- In Sec. 8-7-1-5.

DIVERSIONS.

- Into Secs. 1/12, Tp. 11, Rge. 29-4, and Sec. 7, Tp. 11, Rge. 28 4.
- Into N. $\frac{1}{2}$ Sec. 15-7-30-4.
- Into S. E. $\frac{1}{4}$ Secs. 10/11, Tp. 7, Rge. 30-4.
- Into N. E. $\frac{1}{4}$ Sec. 35-10-27-4.
- Into S. E. $\frac{1}{4}$ Sec. 1-9-2-5.
- Into Secs. 32, 33 and 34, Tp. 8, Rge. 2-5.
- Into Secs. 7, 8, 9 and 17, Tp. 9, Rge. 2-5.
- Into Secs. 34-9-2-5.
- Into Secs. 3, 4, 9 and 10, Tp. 8, Rge. 2-5.
- Into N. W. $\frac{1}{4}$ Sec. 33-11-27-4.
- Into Secs. 32/33, Tp. 14, Rge. 28-4.
- Into Sec. 19-7-1-5.
- Change in Sec. 30-9-29-4.
- Diversion in Sec. 19-5-28-4.
- Diversion in Sec. 18-5-28-4.
- Diversion in N. W. $\frac{1}{4}$ Sec. 14-6-30-4.
- Diversion in N. E. $\frac{1}{4}$ Sec. 21 and N. W. $\frac{1}{4}$ Sec. 22-11-27-4.
- Diversion in Secs. 35/36, 26/27, Tp. 8, Rge. 29-4.
- Diversion in Sec. 14, Tp. 14, Rge. 29-4.
- Change in Sec. 7-7-28-4.
- Diversion in Sec. 6-8-2-5.
- Change in Sec. 3-7-1-5.
- Diversions in Sec. 20/29-14-28-4, and Sec. 24, Tp. 14, Rge. 29-4.
- Diversion in Secs. 33/34, Tp. 10, Rge. 29-4.
- Diversion in N. $\frac{1}{2}$ Sec. 23-12-28-4.
- Change in Sec. 17-6-1-5.
- Diversion in Secs. 13, 14 and 23, Tp. 9-1-5.

EDMONTON, December 30, 1914.

Sir,—I am attaching hereto detailed report showing the work done in my district of North Alberta during the past season.

I organized my party and shipped my outfit to Edson on April 17 in order to get into this portion of the district and complete as

much work as possible before the frost was entirely out of the ground. After completing the work in this part of the district I shipped my outfit on July 11 to Wabamun and completed several pieces of work around Wabamun, Fallis, Duffield and Mewassin, and then moved up to Lac Ste. Anne, commencing the survey of road to Whitecourt on July 30, completing same on October 9. After completing several pieces of work around Whitecourt I worked back towards Lac Ste. Anne and made several surveys around the north and east ends of the lake, also work between there and Noyes' Crossing, winding up at St. Albert with the retracement of old surveyed road within the settlement.

On December 18 I disbanded party and pulled into Edmonton and have since been engaged in completing returns, preparing reports, etc.

The season on the whole has been very favourable for our work, the only rainfall to hinder operations being in the first and last weeks of June and in the early part of September and October.

Your obedient servant,

P. N. JOHNSON,

District Surveyor and Engineer.

L. C. CHARLESWORTH, Esq.,

Director of Surveys,

Edmonton, Alta.

NEW ROADS.

New road across Secs. 20, 29, 31 and 32, Tp. 55-2-5; Sec. 6-56-2-5 and along blind line, N. of Secs. 1 and 2, Tp. 56-3-5.

New road from N. boundary of Lot 20 Lac Ste. Anne settlement to N. boundary of Sec. 35-54-3-5.

New road from Lac Ste. Anne to Whitecourt, commencing at the E. boundary of Sec. 2-55-4-5, running thence to the Narrows of Lac Ste. Anne and commencing again on the W. boundary of Alexis Indian Reserve and running thence to the N. boundary of Sec. 26-59-12-5.

New road between the N. and S. halves of Sec. 18, Tp. 53-17-5 and the N. and S. halves of Sec. 13, Tp. 53-18-5.

New road across Secs. 9 and 16, Tp. 54, Rge. 16-5, connecting with the Edson-Thornton road.

Road along blind line between Secs. 16 and 21, Tp. 53, Rge. 4-5.

New road in W. $\frac{1}{2}$ Sec. 2-55-3-5.

New road across Secs. 5 and 8, Tp. 54-16-5 from Yates station to Yates P. O.

Blind line road between Secs. 27 and 34 and Secs. 28 and 33, Tp. 53-17-5.

New road from Edson to Yates and from Yates to Thornton, commencing at the N. boundary of Sec. 24, Tp. 53-17-5, and ending at the East boundary of Sec. 10, Tp. 54-16-5.

New road across Secs. 2, 3 and 12, Tp. 54-17-5.

New road across Secs. 14, 15, 16 and 17, Tp. 53-18-5, being a portion of road between Edson and Marlborough.

New road across Secs. 15, 22, 27 and 34, Tp. 55-1-5.

New road across Secs. 29 and 32, Tp. 53-17-5; Sec. 6, Tp. 54-17-5 and Secs. 1 and 12, Tp. 54, Rge. 18-5, being portion of Edson-Grande Prairie trail.

New road along line between N. and S. halves of Sec. 16-53-4-5.

New road around Wabamun Lake in N. E. $\frac{1}{4}$ 12-53-4-5.

New road in Secs. 28 and 33-55-5-5.

New road across Secs. 19 and 30, Tp. 56, Rge. 6-5.

ROAD DIVERSIONS.

Diversion in the S. E. $\frac{1}{4}$ Sec. 5, Tp. 53, Rge. 17-5.

Diversion in the W. $\frac{1}{2}$ 12-52-3-5.

Diversion in the N. E. $\frac{1}{4}$ Sec. 9, the N. W. $\frac{1}{4}$ Sec. 10 and the S. W. $\frac{1}{4}$ 15-54-17-5.

Diversion in the N. W. $\frac{1}{4}$ 11-54-17-5.

Diversion in the S. W. $\frac{1}{4}$ 6-53-17-5 and the S. E. $\frac{1}{4}$ 1-53-18-5.

Diversion in the N. $\frac{1}{2}$ 33-52-17-5.

Diversion in the N. W. $\frac{1}{4}$ Sec. 17 and the N. E. $\frac{1}{4}$ 18-53-5-5.

Diversion in the S. W. $\frac{1}{4}$ 3-56-1-5.

Diversion in the N. $\frac{1}{2}$ 32-59-11-5.

Diversion in the S. E. $\frac{1}{4}$ 12-56-3-5.

Diversion in the N. E. $\frac{1}{4}$ Sec. 30 and the S. E. $\frac{1}{4}$ Sec. 31, Tp. 56, Rge. 2-5.

CHANGES IN SURVEYED ROADS OR ROAD DIVERSIONS.

Change in surveyed road diversion in the S. W. $\frac{1}{4}$ 24-53-5-5.

Change in surveyed road in the N. $\frac{1}{2}$ 7-53-3-5.

EXAMINATIONS.

(Surveys found to be unnecessary.)

Examination re diversion asked for around Sturgeon River in the S. W. $\frac{1}{4}$ 6-55-1-5.

Examination re proposed road along line between N. E. and N. W. $\frac{1}{4}$ Sec. 14 thence N. to centre of Sec. 23, thence W. to E. boundary of Sec. 22, all in Tp. 53-18-5.

Examination re proposed change in surveyed road diversion in the E. $\frac{1}{2}$ 2-52-3-5.

Examination re surveyed road diversion in Secs. 25 and 36, Tp. 51-3-5 and in the W. $\frac{1}{2}$ Sec. 31-51-2-5.

Examination re road asked for between the N. and S. halves of Sec. 10-55-2-5.

Examination re diversion asked for in the N. W. $\frac{1}{4}$ Sec. 12-54-17-5.

Examination re road asked for along blind line N. of Secs. 4, 5 and 6, Tp. 54-17-5, extending W. to Grande Prairie trail.

OTHER EXAMINATIONS.

Examination re proposed road along blind line N. of Secs. 9 and 10, Tp. 55, Rge. 3-5.

Examination re proposed road along line between N. and S. halves of Sec. 25-56-7-5.

Examination re proposed road across Sec. 35-55-1-5, including ferry over narrows of Sandy Lake.

Examination re proposed road along N. boundary of Secs. 34, 35 and 36, Tp. 56-7-5.

RETRACEMENTS.

Retracement of surveyed road across Lots 28-38, inclusive, St. Albert settlement.

THE MINES BRANCH

EDMONTON, February 23, 1915.

JOHN STOCKS, ESQ.

Deputy Minister of Public Works,
Edmonton, Alta.

Sir,—In accordance with Section 50 of The Mines Act, I have the honour to submit my report for the year ending December 31, 1914.

The output of bituminous coal shows a reduction of 421,034 tons below that of the year 1913; the lignite coal a reduction of 65,824 tons and the anthracite coal an increase of 2,251 tons. The reduction in the output of bituminous or steam coal is due to the poor condition of trade throughout the country.

There is also a considerable reduction in the output of lignite coal from the Lethbridge field, but this is practically accounted for by the increase in the output of lignite coal from the Drumheller field.

Wages paid at the end of the year 1914 are practically the same as those paid at the end of the year 1913. No serious disputes or cessations of work took place throughout the year.

I have to record with much regret the death of Mr. Elijah Heathcote, a District Inspector of Mines.

In May, Mr. Andrew N. Scott resigned his position as District Inspector of Mines to take a position as manager with the Jasper Park Collieries Ltd., of Pocahontas.

During the year 1914, Messrs. E. D. Black, J. A. Richards, and W. Shaw were appointed District Inspectors of Mines and Mr. Henry James, Superintendent of Mine Rescue Car No. 1.

The staff at December 31 consisted of myself as Chief Inspector of Mines; Mr. Francis Aspinall, residing in Calgary and acting as senior District Inspector of Mines; Mr. Samuel A. Jones, residing in Lethbridge and acting as District Inspector of Mines for the Lethbridge District; Mr. William Shaw, residing at Blairmore and acting as District Inspector of Mines for the Crow's Nest Pass district; Mr. James A. Richards, residing in Calgary and acting as District Inspector of Mines for the Calgary District; Mr. Ernest D. Black, residing in Edson and acting as District Inspector of Mines for the Edmonton district; Mr. Duncan McDonald, residing in Lethbridge and acting as Superintendent of Lethbridge and Taber Mine Rescue Stations; Mr. Henry James, residing at Coleman and acting as Superintendent of Mine Rescue Car No. 1; and Mr. Wm. B. Powell, residing at Canmore and acting as Superintendent of Mine Rescue Car No. 2.

Several conferences with various parties in connection with new regulations made under The Mines Act have been held.

All the fatal accidents and all the more serious of the non-fatal accidents were investigated and all inquests were attended.

All mines have been visited several times during the year.

Very few complaints were received from workmen and others during the year; most of these complaints were anonymous but all have been attended to and investigated. Although some of these complaints were exaggerated, the great majority were well founded and served the useful purpose of bringing attention to faults or irregularities which we were able to have remedied.

The death rate from explosions was very great, due to the occurrence of the Hillcrest mine disaster, which, in point of the number of persons who lost their lives, was the greatest mining disaster that has occurred in Canada.

Considerable progress has been made in connection with training for Mine Rescue Work during the year, a station having been installed and equipped at Taber and a mine rescue car in the Canmore district. Three hundred and thirty persons have received instruction in this work during the year.

The Mines Act came into force on August 1, 1913; Rules for the Installation and Use of Electricity in or about Mines on September 17, 1913; and General Regulations under Section 138 of The Mines Act on November 11, 1914. I have also to report that a Permitted List of explosives was put into effect on December 1, 1914, permitting the use of A.1. Monobel and No. 1. Monobel only for blasting coal in the bituminous and anthracite coal mines.

The Mines Act, having at the end of the year been in force for seventeen months, a good idea as to the manner of its working, and its general effect on the industry from a safety point of view, can be formed. While the requirements of the Act have undoubtedly necessitated a considerable outlay, better supervision and increased safety to persons and property has been obtained.

The Rules for the Installation and Use of Electricity in or about Mines have been fairly well attended to, but in several cases, alterations have yet to be made in order that these rules may be complied with.

As the provision for searching all persons employed in a mine for matches and other prohibited articles in mines in which safety lamps are required to be used, has been neglected to a very great extent, an inspector of mines has now authority to demand at any time, all or any of the persons employed in a mine to be searched.

The measurement of the air current nearer to the face than was necessary under the old provisions has had the effect of proving to those responsible how great is the leakage of the air current. The requirements of the rules with reference to ventilation plans have, in most cases, been complied with.

The following rules have also been put into effect for the purpose of preventing as far as possible, explosions of coal-dust:

“In every mine unless it is naturally wet throughout,—

“(a) The cars shall be so constructed and maintained as to prevent as far as practicable, dangerous coal-dust escaping through the sides, ends or floors of the cars, but any cars which

were in use in any mine at the time of the passing of these regulations may, notwithstanding that they are not so constructed, continue to be used in that mine until the first day of January, 1920.

“(b) Systematic steps shall be taken to prevent as far as practicable, explosions of coal dust occurring or being carried throughout the mine.”

The facts brought out at the inquiry into the cause of the Hillcrest explosion led to the serious consideration of the subject of safety lamps with the result that a regulation has been put into force to the effect that after the first day of January, 1916, no safety lamp except an electric lamp shall be lighted below ground except by a competent person appointed by the manager.

An underground fire was reported in September in the mine operated by the Yellowhead Pass Coal & Coke Co., Ltd. This fire was started at the outcrop of the coal seam by means of a bush fire and although it made considerable headway underground, I am pleased to report that it is now under control.

The amount of coal produced per person employed during the year 1914 shows a decrease below the years 1912 and 1913; this is due to a great extent to the poor condition of trade.

The number of tons of coal produced per pound of explosive used shows an increase in all the districts in the province over the year 1913. The use of Pellet powder in the lignite field has been very unsatisfactory and it has therefore been necessary to allow the use of loose black powder in a number of these mines. Monobel is, however, being used in the mines in the Drumheller field.

As gas has been found, although in small quantities in several of the lignite mines, it has been considered advisable to install safety lamps in these mines, particularly in the Lethbridge, Drumheller and Edmonton districts.

I mentioned in my report for the year 1913 that I intended to have rules prepared and put into force, governing the use of gasoline locomotives; I have, however, been unable to have this done but I expect to do so during the present year.

You will note by referring to the attached tables that apart from the Hillcrest mine disaster, 41 per cent. of the accidents in the province occurred in mines producing under 100,000 tons during the year. This is probably due to the fact that mines where less than thirty men are employed are under the charge of men who do not hold first class certificates and are not so conversant with The Mines Act as the persons who are in charge of the larger mines.

During the year, samples of coal and air have been obtained from different mines in the province; these have been forwarded to the Division of Fuels and Fuel Testing of The Mines Branch at Ottawa for testing purposes, and I expect to have shortly the reports of these tests.

There are 4,387 lamps of the Wolf type in use in the province; 151 of the Koehler type, in addition to 50 electric lamps of the Ceag type; 616 of the Hirsch type and 6 of the Edison type.

In the lignite field 47.60 per cent. of the total output was mined by machinery. No coal-cutting machinery is used in the bituminous or anthracite coal fields.

While the total output from the province shows a decrease of 484,607 tons below the year 1913, it still shows an increase over the year 1912. The decrease under the year 1913 is largely due to the fact that the railway companies, owing to the small amount of freight to be moved have laid off a number of train crews.

An increased amount of mining has been done in the neighborhood of Tofield and Wabamun by means of the stripping process; this process is removing the surface clay by means of steam shovels, after which the coal is quarried and loaded direct into railway cars.

The following tables give particulars regarding the outputs and how the different coals were disposed of during the year.

It will be noted from the following tables that the output for the year 1914 shows a decrease of 484,607 tons below the year 1913.

Year.	Output in short tons for		Output in short tons, Alberta.
	N.W.T. (Alberta and Saskatchewan.)		
1901	346,649	.....	.....
1902	510,674	.....	.....
1903	622,939	.....	.....
1904	782,931	.....	.....
1905 .....	.....	.....	811,228
1906 .....	.....	.....	1,385,000
1907 .....	.....	.....	1,834,745
1908 .....	.....	.....	1,845,000
1909 .....	.....	.....	2,174,329
1910 .....	.....	.....	3,036,757
1911 .....	.....	.....	1,694,564
1912 .....	.....	.....	3,446,349
1913 .....	.....	.....	4,306,346
1914 .....	.....	.....	3,821,739

CLASSIFICATION OF OUTPUTS DURING THE YEAR 1914.

	Tons.
Lignite coal	1,697,401
Bituminous coal	1,953,367
Anthracite coal	170,971
Coal used in coke production	44,249
Coke produced	29,058
Briquettes produced	109,082

The following table indicates how the total output of coal from the Province was disposed of:

Tons of 2,000 lbs.	Crow's Nest Pass	Calgary	Leth- bridge	Edmon- ton	Total
Sold for consumption in Alberta	948,803	515,107	196,522	691,752	2,352,184
Sold for consumption in other provinces	70,006	145,981	455,166	118,671	789,824
Sold for export to the United States	102,116	2,853	1,118		106,087
Total sales	1,120,925	663,941	652,806	810,423	3,248,095
Used in making briquettes ..		80,592			80,592
Used in making coke	44,249				44,249
Used under colliery boilers..	63,942	59,777	102,527	58,716	284,962
Put to stock	10,396	1,318		1,088	12,802
Lifted from stock			2,884		2,884
Slack put on waste heap.....	285	55,794	30,241	67,603	153,923
Total output	1,239,797	861,422	782,690	937,830	3,821,739

The following table indicates how the bituminous coal outputs from the different inspection districts in the Province were disposed of:

Tons of 2,000 lbs.	Crow's Nest Pass	Calgary	Leth- bridge	Edmon- ton	Total
Sold for consumption in Alberta	948,803	328,022		286,945	1,563,770
Sold for consumption in other provinces	70,006	18,290		23,065	111,361
Sold for export to the United States	102,116	2,643			104,759
Total sales	1,120,925	348,955		310,010	1,779,890
Used in making coke	44,249				44,249
Used under colliery boilers..	63,942	18,097		15,408	97,447
Put to stock	10,396	448		644	11,488
Lifted from stock					
Slack put on waste heap	285	11,233		8,775	20,293
Total	1,239,797	378,733		334,837	1,953,367

The following table indicates how the anthracite coal and briquettes output in the Province were disposed of:

Tons of 2,000 lbs.	Calgary District.	
	Coal	Briquettes
Sold for consumption in Alberta	24,158	94,195
Sold for consumption in other provinces	19,456	14,693
Sold for export to the United States	210	30
Total sales	43,824	108,918
Used under colliery boilers	33,276	162
Used in making briquettes	80,592	
Put to stock	95	165
Lifted from stock		167
Slack put on waste heap	13,184	
Total	170,971	109,082

In addition to amount used in briquetting as shown above, 19,328 tons were used from old stock piles.

The following table indicates how the lignite coal outputs from the different inspection districts in the Province were disposed of:

Tons of 2,000 lbs.	Calgary	Lethbridge	Edmonton	Total
Sold for consumption in Alberta	162,927	196,522	404,807	764,256
Sold for consumption in other provinces	108,235	455,166	95,606	659,007
Sold for export to the United States		1,118		1,118
Total sales	271,162	652,806	500,413	1,424,381
Used under colliery boilers	8,404	102,527	43,308	154,239
Put to stock	775		444	1,219
Lifted from stock		2,884		2,884
Slack put on waste heap.	31,377	30,241	58,828	120,446
Total	311,718	782,690	602,993	1,697,401

The following table indicates how the output of coke was disposed of:

	Tons of 2,000 lbs.
Sold for consumption in Alberta	330
Sold for consumption in other provinces	28,653
Total sales	28,983
For colliery use	75
Total output	29,058

The Crow's Nest Pass is the only district in the Province in which coke is produced.

The following table shows the total sales of coal, briquettes and coke of the Province:

	Tons of 2,000 lbs.			
	Sold for consumption in Alberta	Sold for consumption in other provinces	Sold for export to United States	Total
Bituminous coal	1,563,770	111,361	104,759	1,779,890
Anthracite coal	24,158	19,456	210	43,824
Lignite coal	764,256	659,007	1,118	1,424,381
Total sales	2,352,184	789,824	106,087	3,248,095
Briquettes	94,195	14,693	30	108,918
Coke	330	28,653		28,983

The following table shows the classification of persons employed above and below ground in the bituminous coal fields:

AVERAGE NUMBER EMPLOYED.

Character of Labour	Crow's Nest Pass Dist.		Calgary District		Edmonton District		Total	
	Above	Below	Above	Below	Above	Below	Above	Below
Supervision and clerical assistance	68	77	21	22	27	22	116	121
Miners and helpers		911		467		336		1,714
Mechanics or skilled labour	148	25	40	20	33	19	221	64
Other employees	322	496	100	76	138	161	560	733
Total	538	1,509	161	585	198	538	897	2,632

The following table shows the classification of persons employed above and below ground in the lignite coal fields:

Character of Labour	Lethbridge District		Calgary District		Edmonton District		Total	
	Above	Below	Above	Below	Above	Below	Above	Below
Supervision and clerical assistance	47	63	51	51	48	52	146	166
Miners and helpers		1,118		650		496		2,264
Mechanics or skilled labour	91	90	72	27	66	40	229	157
Other employees	259	381	156	103	239	119	654	603
Total	397	1,652	279	831	353	707	1,029	3,190

The following table shows the classification of persons employed above and below ground in the bituminous, anthracite and lignite coal fields, respectively:

AVERAGE NUMBER EMPLOYED.

Character of Labour	Bituminous		Anthracite		Lignite		Total	
	Above	Below	Above	Below	Above	Below	Above	Below
Supervision and clerical assistance	116	121	10	11	146	166	272	298
Miners and helpers		1,714		158		2,264		4,136
Mechanics or skilled labour	221	64	56	1	229	157	506	222
Other employees	560	733	126	60	654	603	1,340	1,396
Total	897	2,632	192	250	1,029	3,190	2,118	6,052

PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS, ANTHRACITE AND LIGNITE COAL FIELDS RESPECTIVELY

Character of coal	Tons of 2,000 lbs.				
	Gross tons of coal mined	Total number of men employed	Tons of coal mined per man	Number of men employed underground	Tons of coal mined per man employed underground
Bituminous ...	1,953,367	3,529	553	2,632	742
Anthracite ...	170,971	422	405	230	743
Lignite	1,697,401	4,219	402	3,190	532

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE

Year	Tons of 2,000 lbs.				
	Gross tons of coal mined	Total No. of men employed	Tons of coal mined per man	No. of men employed undergr'nd	Tons of coal mined per man employed underground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
1909	2,174,329	5,207	417	3,893	566*
1910	3,036,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375**
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631

*During the year 1909 a strike affecting all the larger mines in the province lasted for a period of three months.

**During the year 1911 a strike affecting all the larger mines in the province lasted for a period of eight months.

The following table shows the amount of coal mined in the different geographical districts of the Province during the year 1914:

District.	Number of persons employed	Lignite	Bituminous	Anthracite
Crow's Nest Pass	1,939		1,208,342	
Pincher Creek	108		31,455	
Lethbridge	1,512	638,342		
Taber	399	121,033		
Bow Island	69	11,587		
Milk River	26	3,704		
Banff	826		221,382	170,971
Medicine Hat	177	38,445		
Okotoks	25	5,516		
Aldersyde	25	8,024		
Carstairs	15	590		
Carbon	28	7,972		
Trochu	24	5,309		
Drumheller	508	161,755		
Three Hills	84	8,283		
Lacombe	138	42,691		
Wetaskiwin	129	41,157		
Brazeau	342		157,351	
Edmonton	526	254,904		
St. Albert	67	10,420		
Tofield	95	49,056		
Cardiff	248	229,991		
Pembina	124	58,622		
Yellowhead Pass	581		253,647	
Jasper Park	155		81,190	
Total	8,170	1,697,401	1,953,367	170,971

The following table shows where the bituminous, anthracite and lignite coals from the different districts were sold:

BITUMINOUS COAL

District.	Sold for consumption in Alberta	Sold for consumption in other Provinces	Sold for export to the United States	Total
Crow's Nest Pass	926,748	62,559	101,491	1,090,798
Pincher Creek	22,055	7,447	625	30,127
Banff	173,611	18,230	2,643	194,484
Brazeau	154,411	60		154,471
Yellowhead Pass	209,259	23,065		232,324
Jasper Park	77,686			77,686
Total	1,563,770	111,361	104,759	1,779,890

ANTHRACITE COAL.

Banff	24,158	19,456	210	43,824
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LIGNITE COAL.

District.	Sold for con- sumption in Alberta	Sold for con- sumption in other Provinces	Sold for export to the United States	Total
Lethbridge	158,905	382,623	525	542,053
Taber	17,095	72,543	593	90,231
Bow Island	11,127			11,127
Milk River	2,550			2,550
Aldersyde	6,845			6,845
Medicine Hat	22,985	7,348		30,333
Okotoks	5,258			5,258
Carstairs	490			490
Carbon	6,681			6,681
Trochu	4,012	270		4,282
Drumheller	53,693	83,884		137,577
Three Hills	6,962	268		7,230
Lacombe	35,995	3,307		39,302
Wetaskiwin	26,851	13,158		40,009
Edmonton	204,843	17,293		222,136
St. Albert	4,270			4,270
Tofield	30,094	12,814		42,908
Cardiff	131,516	54,806		186,322
Pembina	34,084	10,693		44,777
Total	764,256	659,007	1,118	1,424,381

SUMMARY OF STATISTICS FOR THE YEAR 1914.

Number of mines in operation	264
Number of new mines opened	42
Number of mines abandoned	45
Number of tons of coal mined	3,821,739
Number of tons of coke produced	29,058
Number of tons of briquettes produced	109,082
Average number of persons employed inside mines	6,052
Average number of persons employed outside mines	2,118
Average number of persons employed inside the mines during the month of December	5,314

Average number of persons employed outside the mines during the month of December	2,092
Number of separate accidents causing loss of life	18
Number of deaths caused by accidents inside the mines	*208
Number of deaths caused by accidents outside the mines	1
Number of serious accidents inside the mines	35
Number of serious accidents outside the mines	9
Number of slight accidents inside the mines	45
Number of slight accidents outside the mines	5
Number of Mine Manager's Certificates issued	8
Number of Overmen's Certificates issued	11
Number of Examiner's Certificates issued	59
Number of Mine Rescue Certificates issued	95
Number of persons holding First Class certificates	159
Number of persons holding Second Class certificates	183
Number of persons holding Third Class certificates	360
Number of persons granted Provisional Overmen's certificates ..	141

*Including 189 persons killed in the Hillcrest disaster.

ELECTRICITY

According to the returns received from the different mines electricity was used at 29 mines in 1914. The Crow's Nest Pass was the most active district in this respect during the year as will be seen from the following:

Lethbridge	6	mines	using	electricity
Crow's Nest Pass	11	"	"	"
Calgary	6	"	"	"
Edmonton	6	"	"	"

The Rules for the Installation and Use of Electricity in or about Mines require a return to be made to the department on or before January 21 of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground in such mines as are governed by the provisions of The Mines Act. A summary of this return as regards the horsepower of electrical apparatus in use is given below:

District.	Above Ground	Underground	Total
	H.P.	H.P.	H.P.
Lethbridge	745	633	1,378
Crow's Nest Pass	2,395	1,328	3,723
Calgary	731	....	731
Edmonton	482	347	829

A closer estimate of the extent to which electricity is used in the different districts may be made by considering the number of tons of coal raised per electrical horsepower employed in all the mines under The Mines Act. The following table will give this information:

TONS OF COAL PER ELECTRICAL HORSE-POWER EMPLOYED.

District.	Tons of coal mined in 1914	Above ground	Below ground	Total above and below ground
Lethbridge	782,690	1,050	1,236	568
Crow's Nest Pass	1,239,797	517	933	333
Calgary	861,422	1,178		1,178
Edmonton	937,830	1,945	2,702	1,131

This table is useful to show by comparison with other years the growth or decline in the use of electricity in the Province as a whole and in each district taken separately.

The number of electrically driven coal-cutting machines in use at the end of the year was eight.

No accidents were reported in connection with the use of electricity during the year.

COAL CUTTING MACHINERY

District.	Number of coal cutting machines operated by:		Tons of coal mined by:	
	Electricity	Compressed Air	Electricity	Compressed Air
Crow's Nest Pass				
Lethbridge	1	105	5,812	560,932
Calgary		6		24,242
Edmonton	7	8	147,041	71,378
Total	8	119	152,853	656,552

EXPLOSIVES

The following tables showing the quantity of the various kinds of explosives used during the year in mines, the estimated number of shots fired, the methods of firing them and the number of miss-fires recorded, have been compiled from returns furnished by the mine owners.

QUANTITY OF EXPLOSIVES USED IN LBS.

Name of Explosive.	Crow's Nest Pass	Lethbridge	Calgary	Edmonton	Total
Black Powder		152,811	81,264	137,207	371,282
Monobel	130,424	11,505	99,722	120,495	362,146
Samsonite		5,630			5,630
Dynamite	25,729	15,142	15,800	6,246	62,917
Nobel Ammonia	1,640		2,368	4,272	8,280
Compressed Black Powder..		22,593	2,575	26,300	51,468
Bulldog		100			100
Total	157,793	202,151	207,359	294,520	861,823

ESTIMATED NUMBER OF SHOTS FIRED.

District.	By			Total
	Electricity	By Fuse	By Squibs	
Crow's Nest Pass	162,575	4,029		166,604
Lethbridge	85,071	19,617	98,634	203,322
Calgary	154,507	76,384	29,894	260,785
Edmonton	115,871	104,035	857	220,763
Total	518,024	204,065	129,385	851,474

NUMBER OF MISS-FIRE SHOTS RECORDED.

District.	By Electricity	By Fuse	Otherwise	Total
Crow's Nest Pass	293	7		300
Lethbridge	252	15	63	330
Calgary	250	163	118	531
Edmonton	203	180		383
Total	998	365	181	1,544

No statistics are available as to the causes of the miss-fires.

The following table shows the number of tons of bituminous and anthracite coal produced per lb. of explosive used in each district.

District.	No. of tons of coal produced	No. of pounds of explosives used	No. of tons of coal produced per pound of explosive used
Crow's Nest Pass	1,239,797	157,793	7.85
Calgary	549,704	89,700	6.12
Edmonton	334,837	112,674	2.97
Total	2,124,338	360,167	5.06

The following table shows the number of tons of lignite coal produced per lb. of explosive used in each district.

District.	No. of tons of coal produced	No. of pounds of explosive used	No. of tons of coal produced per pound of explosive used
Lethbridge	782,690	202,151	3.87
Calgary	311,718	117,659	2.64
Edmonton	602,993	181,846	2.32
Total	1,697,401	501,656	3.38

The following table shows the average number of days in each month on which bituminous and anthracite coal was drawn in each district:

District.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Average No. of days worked per month
Crow's Nest Pass	19	16	16	14	14	12	18	17	15	17	18	15	15.9
Calgary	23	22	19	19	18	16	19	14	14	17	16	18	17.9
Edmonton	19	19	20	18	19	17	18	19	19	24	21	24	19.7
Total	20.3	19.6	18.3	17.0	17.0	15.0	18.3	16.6	16.0	19.3	18.3	19.0	17.9

The following table shows the average number of days in each month on which lignite coal was drawn in each district:

District.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Average No. of days worked per month
Lethbridge	14	14	12	11	10	10	9	10	13	18	19	18	13.1
Calgary	18	18	15	12	10	9	11	13	16	20	22	23	15.5
Edmonton	20	19	16	14	11	10	11	12	18	20	21	20	16.0
Total	17.3	17.0	14.3	12.3	10.3	9.6	10.3	11.6	15.6	19.3	20.6	20.3	15.0

LIST OF PROSECUTIONS UNDER THE MINES ACT

Mine in Which Contravention was Committed	Description of Defendant	Offence Charged.	Result of Proceedings.	Penalty.	Costs.
Canadian Coal & Coke Co., Ltd. (Lovett) ..	Miner	Omitting to support coal during operation of undercutting (Sec. 75) ..	Convicted	\$10.00	\$5.00
R. W. K. Cousins	Owner	Failed to have certificated person in charge (Sec. 29)	Convicted	\$25.00	\$5.05
Canadian Coal & Coke Co., Ltd. (Coalhurst)	Miner	Failed to extinguish light in defective safety lamp (Sec. 113)	Convicted	\$25.00 and two months' imprisonment or in default of payment of fine four months' imprisonment	\$6.15
Canadian Coal & Coke Co., Ltd. (Coalhurst)	Miner	Did an act likely to cause danger to the mine or to any person (Sec. 97)	Convicted	Two months' imprisonment with hard labor	
Canadian Pacific Railway Co. (No. 6 Mine, Lethbridge)	Miner	Misrepresentation of age of boy (Sec. 8)	Convicted	\$10.00 or one month's imprisonment	\$4.65
Canadian Coal & Coke Co., Ltd. (Coalhurst)	Miner	Failed to report contravention of Act (Sec. 99)	Convicted	\$10.00 or thirty days imprisonment	\$5.95
Rosedale Coal & Clay Products Co., Ltd. ..	Owner	Omitted to have the underground workings under the charge of a certificated person (Sec. 29)	Convicted	\$25.00 or two months' imprisonment	\$3.00
Rosedale Coal & Clay Products Co., Ltd. ..	Overman	Omitted to examine and initial daily all report books (Sec. 109)	Convicted	\$25.00 or two months' imprisonment	\$3.00
Rosedale Coal & Clay Products Co., Ltd. ..	Owner	Omitted to post plan at mine (Sec. 55)	Convicted	\$25.00 or two months' imprisonment	\$3.00
Georgetown Collieries, Ltd.	Miner	Having matches in his possession underground (Sec. 64)	Convicted	\$2.00 or fifteen days imprisonment	\$6.00

LIST OF PROSECUTIONS UNDER THE MINES ACT.—Continued.

Mine in Which Contravention was Committed	Description of Defendant.	Offence Charged.	Result of Proceedings.	Penalty.	Costs.
West Canadian Collieries, Ltd. (Bellevue)...	Watchman	Did enter in or about a mine while in a state of intoxication (Sec. 100)...	Convicted	\$15.00 or two months' imprisonment	\$3.25
Drumheller Coal Co., Ltd.	Miner	Did enter in or about a mine while in a state of intoxication (Sec. 100)...	Convicted	\$5.00 or one month's imprisonment	\$3.50
West Canadian Collieries, Ltd. (Bellevue)...	Miner	Did take into a building, explosives (Sec. 107)	Convicted	\$5.00	\$3.25
Wilfred Poxon	Owner	Omitted to have the underground workings under the charge of a certificated person (Sec. 29)	Convicted	\$10.00	\$6.00
West Canadian Collieries, Ltd. (Bellevue)...	Miner	Loaded a hole not in accordance with the instructions of the shotlighter (Sec. 65)	Convicted	\$5.00	\$3.75
West Canadian Collieries, Ltd. (Bellevue)...	Miner	Failed to return to the place of storage, explosives (Sec. 113)	Convicted	\$10.00 or one month's imprisonment	\$3.75
Duncan McKenzie	Owner	Omitted to have the underground workings under the charge of a certificated person (Sec. 29)	Convicted	\$5.00	\$23.75
West Canadian Collieries, Ltd. (Bellevue)...	Miner	Loaded a hole not in accordance with the instructions of the shotlighter (Sec. 65)	Convicted	\$5.00 or one month's imprisonment	\$3.25

On December 3, 1914, I conducted an inquiry in pursuance of The Mines Act touching a complaint that William Picton was, by reason of incompetency or gross negligence, unfit to be the possessor of a Third Class certificate.

On November 22 a man named Joseph Naso was injured by a premature explosion of Monobel in the mine operated by the Leitch Collieries, Ltd., near Passburg.

Picton stated that when he went into the place where the accident occurred, four holes were drilled and the coal was properly mined. He saw three of the holes loaded and tamped but left the place after giving instructions to Naso to load the fourth hole, consequently, this hole was not loaded under the supervision of some person holding a certificate. Naso connected the wires to the first shot which was fired under Picton's instructions; he then proceeded to connect up the wires to the second shot while Picton was absent. Naso had apparently misunderstood the instructions of Picton.

Picton pleaded guilty to the charges laid against him and his certificate was suspended from the date of the inquiry until the first day of January, 1916.

MINES OPENED DURING THE YEAR 1914

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
422	Drumheller	The Sterling Coal Co., Ltd.	Lignite
423	Trochu	Loiselle & Heinke	Lignite
424	Wabamun	Mullen Coal Co.	Lignite
425	Raymond	Depew & Miller	Lignite
426	Trochu	Robert Halbert, Jr.	Lignite
427	Halkirk	Benjamin Hronek	Lignite
428	Namao	Wilcox, Fiss & Co.	Lignite
429	Entrance	McKenzie & Mann	Bituminous
430	Edberg	Hugh Weaver	Lignite
431	Edson	M. C. Rambo	Bituminous
432	Reid Hill	James Ashmore	Lignite
433	Lineham	Alex. Lehman	Bituminous
434	Elcan	Excelsior Coal Co.	Lignite
435	Lucky Strike ..	E. F. Bye	Lignite
436	Rosedale	Star Coal Mines, Ltd.	Lignite
437	Queenstown ...	Wm. H. Hodson	Lignite
438	Cochrane	J. D. Curren	Semi-Bitumin'us
439	Drumheller	Wm. D. Gordon	Lignite
440	Maycroft	Herschel Kaye	Bituminous
441	Halkirk	Martin Johnson	Lignite
442	Namao	W. & G. Williscroft	Lignite
443	Sheerness	Wm. John Anderson	Lignite
444	Twining	Anthony Jackson	Lignite
445	Twining	Chas. S. Wilson	Lignite
446	Royal View	Alfred Ruffell	Lignite
447	Loveland	Louis Martin	Lignite
448	Bow Island	Walter Wallwork	Lignite
449	Hastings Coulee	J. R. Turney	Lignite
450	Strome	William Robinson	Lignite
451	Halkirk	Louis Bergren	Lignite
452	Pincher Creek..	Thomas J. Sparrow	Bituminous
453	Pincher Creek..	William McFarlane	Bituminous
454	Warner	T. E. Simpson	Lignite

MINES OPENED DURING THE YEAR 1914.—*Continued.*

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
455	Fishburn	Daniel Fitzpatrick	Bituminous
456	Hillspring	E. J. Brooks	Bituminous
457	Pincher Creek	Bradley & Watson	Bituminous
458	Fishburn	James Alex. Gilruth	Bituminous
459	Swalwell	Fred. Gardner	Lignite
460	Gem	Clement & King	Lignite
461	Yetwood	T. E. Smith	Lignite
462	Maycroft	James Jeffrey	Bituminous
463	Maycroft	Wilson Dennis	Bituminous

MINES OPERATED DURING THE YEAR 1914

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
2	Canmore	The Canmore Coal Co., Ltd.	Bituminous
3	Lethbridge	Canadian Pacific Railway Co.	Lignite
8	Clover Bar	William Daly	Lignite
9	Edmonton	The Clover Bar Coal Co., Ltd.	Lignite
29	Edmonton South	White Star Coal Co., Ltd.	Lignite
30	Black Diamond.	Ad. D. McPherson	Bituminous
32	Cardiff	The Cardiff Collieries, Ltd.	Lignite
37	Medicine Hat ..	H. and W. Ansley	Lignite
40	Hillcrest	Hillcrest Collieries, Ltd.	Bituminous
43	Beverly	The Humberstone Coal Co.	Lignite
46	Edmonton	Magrath-Holgate Company, Ltd.	Lignite
48	Frank	Franco-Canadian Collieries, Ltd.	Bituminous
49	Edmonton	Edmonton Standard Coal Co., Ltd.	Lignite
53	Carbon	The Knee Hill Coal Co., Ltd.	Lignite
54	Lethbridge	James Ashcroft	Lignite
55	Lethbridge	John Rollingson	Lignite
56	Magrath	Thos. H. Baker	Lignite
59	Lundbreck	Marlow Brothers	Bituminous
69	Edmonton	Keith and Fulton	Lignite
72	Blackfoot Res.		
	Gleichen	Blackfoot Reserve	Lignite
80	Bankhead	Canadian Pacific Railway Co.	Anthracite
82	Taber	Regal Collieries, Ltd.	Lignite
87	Bellevue	Western Canadian Collieries, Ltd.	Bituminous
88	Coleman	The International Coal and Coke Co., Ltd.	Bituminous
89	Clover Bar	The Great West Coal Co., Ltd.	Lignite
90	Clover Bar	Byers Brothers	Lignite
91	Clover Bar	R. P. Ottewell	Lignite
99	Clover Bar	The Great West Coal Co., Ltd.	Lignite
101	Namao	The Cambrian Collieries, Ltd.	Lignite
105	Taber	Canada-West Coal Co., Ltd.	Lignite
106	Taber	The White Ash Collieries, Ltd.	Lignite
113	Three Hills	Albert Trentham	Lignite
115	Carbon	Dodds, Currie & Hoding ..	Lignite
116	Three Hills	George Watson	Lignite
120	Loch Sloy	Wm. Kummer	Bituminous
126	Passburg	The Leitch Collieries, Ltd.	Bituminous
129	Cardiff	The Alberta Coal Mining Co., Ltd.	Lignite
131	Elcan	Ensign Coal Mining Co.	Lignite
132	Taber	Canadian Pacific Railway Co.	Lignite
133	Bellevue	Maple Leaf Coal Co.	Bituminous
135	Carmangay	Elias Kyllingstad	Lignite
136	Long Coulee ...	Henry Therriault	Lignite

MINES OPERATED DURING THE YEAR 1914.—*Continued.*

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
137	Reid Hill	W. J. Greenaway	Lignite
142	Three Hills ...	George Watson	Lignite
148	Edmonton	Western Coals, Ltd.	Lignite
149	Tofield	J. A. McDevitt	Lignite
151	Reid Hill	J. W. Brown	Lignite
153	Burmis	Davenport Coal Co.	Bituminous
155	Edmonton	The Dawson Coal Co., Ltd.	Lignite
162	Magrath	Wm. Jaynes	Lignite
165	Redcliff	Redcliff Brick & Coal Co., Ltd.	Lignite
166	Alix	John P. Dweak	Lignite
167	Nevis	R. W. K. Cousins	Lignite
169	Mitford	Mitford (Calgary) Colliery Co., Ltd.	Semi-Bitumin'us
170	Elcan	Rock Springs Coal & Brick Co., Ltd.	Lignite
174	Coalhurst	Canadian Coal & Coke Co., Ltd.	Lignite
177	Edmonton South	Twin City Coal Co., Ltd.	Lignite
178	Namao	Nash & Williams	Lignite
179	Milk River ...	Evan T. Davies	Lignite
180	Grassy Lake ...	Jonathan J. Mills	Lignite
181	Taber	Consolidated Monarch Collieries, Ltd.	Lignite
185	Bow Island ...	David H. Long	Lignite
187	Carbon	Wilfred Poxon	Lignite
189	Carbon	Charles J. Hedstrom	Lignite
192	Lethbridge ...	City of Lethbridge	Lignite
193	Blairmore	West Canadian Collieries, Ltd.	Bituminous
194	Ghost Pine Crk.	The Knee Hill Coal Co., Ltd.	Lignite
196	Namao	H. Spiers	Lignite
198	Champion	W. E. Watkins	Lignite
199	Beaver Mines ...	Canadian Coal & Coke Co., Ltd.	Bituminous
200	Little Plume ...	Geddes Day & Gibb	Lignite
201	Taber	Golden West Coal Mining Co., Ltd. ...	Lignite
203	Royal View ...	New Barnes Coal Company	Lignite
204	Coleman	McGillivray Creek Coal & Coke Co. Ltd.	Bituminous
211	Halkirk	H. V. Green	Lignite
212	Halkirk	Carl Gus Hilker	Lignite
213	Grassy Lake ...	Samuel Ervine	Lignite
214	Three Hills ...	William Halbert	Lignite
218	Champion	Ellis Brothers	Lignite
219	Bituma	G. H. Knowlton	Bituminous
220	Coalspur	The Yellowhead Pass Coal & Coke Co. Ltd.	Bituminous
224	Brunetta	Henderson Bros.	Bituminous
226	Eyremore	Prairie Coal Co., Ltd.	Lignite
227	Evansburgh ...	Pembina Coal Operators, Ltd.	Lignite
228	Taber	The White Ash Collieries, Ltd.	Lignite
229	Taber	Superior Coal Co., Ltd.	Lignite
231	Canmore	The Georgetown Collieries, Ltd.	Bituminous
233	Lovett	Canadian Coal & Coke Co., Ltd.	Bituminous
234	Eyremore	Baker, Hoge & Baker	Lignite
237	Cardiff	The Capital Coal Co., Ltd.	Lignite
240	Halkirk	S. G. Bevier	Lignite
241	Dinant	The Spicer Coal Co., Ltd.	Lignite
242	Heather Brae ...	W. B. Potter	Lignite
243	Castor	Fortner & Wright	Lignite
244	Camrose	The Stony Creek Collieries, Ltd.	Lignite
245	Hastings Coulee	Bish Bros. & LeGear	Lignite
246	Castor	A. D. McCormack	Lignite
247	Commerce	Chinook Coal Co., Ltd.	Lignite
249	Wanda	J. M. Schares	Lignite
250	Round Hill ...	The Round Hill Collieries, Ltd.	Lignite
251	Daysland	Julius Wilkinson	Lignite
252	Tofield	Tofield Coal Co., Ltd.	Lignite

MINES OPERATED DURING THE YEAR 1914.—*Continued.*

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
253	Pincher Creek.	A. D. McKinnon	Bituminous
254	Lethbridge	Geo. Heighes	Lignite
255	Gaetz Valley ..	T. D. Conger	Lignite
256	Nordegg	Brazeau Collieries, Ltd.	Bituminous
260	Wabamun	Conner Coal Mining Co., Ltd.	Lignite
262	Sheerness	James McGary	Lignite
264	Carmangay	Staveley Coal Mining Co.	Lignite
265	Winnifred	W. H. Simanton	Lignite
267	St. Albert	Canadian Coal & Coke Co., Ltd.	Lignite
268	Halkirk	H. V. Green	Lignite
271	Milk River	Carl E. Hollander	Lignite
272	Bow Island	John S. Hutchison	Lignite
273	Halkirk	Davis & Green	Lignite
275	Castor	The National Coal Co.	Lignite
276	Diamond City ..	Slockett & Murray	Lignite
277	Kippenville	Duncan Kippen	Lignite
279	Milk River	Daniel G. McKay	Lignite
280	Pocahontas	Jasper Park Collieries, Ltd.	Bituminous
282	Mountain Park ..	Mountain Park Coal Co., Ltd.	Bituminous
283	Clover Bar	The Great West Coal Co., Ltd.	Lignite
287	Big Valley	G. W. Davison	Lignite
288	Gadsby	Herbert Baines	Lignite
289	Halkirk	Cable Brothers	Lignite
290	Big Valley	R. T. Davison	Lignite
291	Gadsby	Joseph Wagner	Lignite
295	Pincher Creek ..	J. H. Owen	Bituminous
296	Champion	William Ellis	Lignite
299	Standard	R. W. Brunmer	Lignite
301	Big Valley	U. G. Robinson	Lignite
302	Rosenroll	Battle River Collieries, Ltd.	Lignite
303	Three Hills	George Watson	Lignite
304	Castor	George Davies	Lignite
308	Lucky Strike ..	H. B. Hughson	Lignite
309	Fraserton	J. A. Haeckl	Lignite
314	Ardley	The Calgary Collieries, Ltd.	Lignite
315	Trochu	Halbert Brothers	Lignite
316	Cardston	Cardston Coal & Coke Co., Ltd.	Bituminous
317	Drumheller	Newcastle Coal Co., Ltd.	Lignite
318	Carbon	Duncan McKenzie	Lignite
319	Wabamun	Lake View Coal Company	Lignite
321	Sheerness	Col. James A. Walker	Lignite
323	Bow Island	Arthur Morgan	Lignite
324	Winnifred	Jules Lavenne	Lignite
325	Castor	Thomas A. Marshall	Lignite
326	Dewinton	W. M. Davis	Lignite
328	Huxley	George C. Yard	Lignite
329	Castor	John Heaney	Lignite
330	Pincher Creek ..	The Link Coal Company	Bituminous
332	Redcliff	Redcliff Clay Products Co., Ltd.	Clay
333	Granlea	Frank Kovaics	Lignite
334	Suffield	Robt. MacAllister	Lignite
335	Drumheller	Vulcan Coal Co., Ltd.	Lignite
337	Trochu	Alex. W. McKinlay	Lignite
340	Tofield	The Dobell Coal Co., of Tofield, Ltd. ..	Lignite
341	Prosby	Ferdinand Friedenbergl	Lignite
342	Windy Ridge	James C. Foote	Lignite
344	Winnifred	Elsworth Raber	Lignite
345	Bow Island	C. F. Henry	Lignite
346	Rosedale	Rosedale Coal & Clay Products Co. Ltd.	Lignite
347	Drumheller	Rosedeer Coal Mining Co., Ltd.	Lignite
348	Munson	John Niesner	Lignite

MINES OPERATED DURING THE YEAR 1914.—*Continued.*

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
349	Drumheller	Drumheller Coal Co., Ltd.	Lignite
350	Prairie Grange.	Northern Construction Company, Ltd.	Bituminous
352	Gainford	The Gainford Collieries, Ltd.	Lignite
353	Foremost	William Roberts	Lignite
354	Della	Hand Hill Coal Co.	Lignite
355	Munson	George F. Stainton	Lignite
356	Medicine Hat ..	Jas. H. Amos	Lignite
357	Hillspring	Thomas Nash	Bituminous
358	Winnifred	W. H. Simanton	Lignite
360	Standard	The Standard Coal & Development Co., Ltd.	Lignite
361	Priddis	Joseph Woolings	Lignite
362	Long View	Edward Little	Lignite
364	Big Valley	The Big Valley Collieries, Ltd.	Lignite
367	Drumheller	Midland Collieries, Ltd.	Lignite
368	Comrey	Dr. J. H. Duncan	Lignite
370	Prosby	Stephen Schmidt	Lignite
372	Diamond City ..	Bathurst Mining Co., Ltd.	Lignite
374	Dinant	Schmidt & Wilson	Lignite
375	Garden Plain ..	T. A. Kane	Lignite
376	Perbeck	Nelson & Johnson	Lignite
377	Grassy Lake	Mark Hancock	Lignite
379	Redcliff	Redcliff Pressed Brick Co., Ltd.	Shale
380	Delia	Fred. R. Mason	Lignite
381	Lucky Strike ..	Arthur Bembridge	Lignite
382	Windy Ridge	George Winslow Thorpe	Lignite
383	Munson	F. T. Caswell	Lignite
384	Three Hills	Union Coal Co., Ltd.	Lignite
386	Namao	Cameron Brothers	Lignite
387	Gadsby	Cable Brothers	Lignite
388	Rocky Mountain House	Saunders Creek Coal Co., Ltd.	Bituminous
389	Namao	Frank Smith	Lignite
390	Lucky Strike	W. S. Abel	Lignite
391	Taber	Block Coal Collieries	Lignite
395	Picture Butte ..	Michael Molloy	Lignite
396	Blairmore	West Canadian Collieries, Ltd.	Bituminous
397	Namao	Sturgeon Coal Co., Ltd.	Lignite
398	Fertility	Thomas McCafferty	Lignite
399	Prosby	Mike Koffler	Lignite
400	Winnifred	Robert A. Salisbury	Lignite
401	Lucky Strike	William Black	Lignite
402	Drumheller	Red Deer Valley Coal Co., Ltd.	Lignite
403	Munson	Zarth & Embury	Lignite
404	Halkirk	F. S. Bergram	Lignite
405	Magrath	Wm. H. McIntyre	Lignite
406	Lineham	The Black Diamond Oil Fields, Ltd...	Bituminous
407	Milk River	Robert Jaynes	Lignite
409	Raymond	John H. Wall	Lignite
410	Whitla	H. F. Ensign	Lignite
411	Magrath	Samuel Pyrah	Lignite
412	Wabamun	New Era Coal Co., Ltd.	Lignite
413	Raymond	Page & Dayton	Lignite
414	Buford	Dan Popik	Lignite
415	Parr	Haight & Harrison	Lignite
416	Okotoks	P. Burns Coal Mines, Ltd.	Bituminous
417	Castor	Carter & Mallott	Lignite
418	Castor	National Coal Co.	Lignite
419	Wabamun	The Wabamun Power & Coal Co., Ltd.	Lignite
420	Namao	Clarke & Davis	Lignite
421	Lucky Strike	Daniel T. Sheets	Lignite
422	Drumheller	Sterling Coal Co., Ltd.	Lignite

MINES OPERATED DURING THE YEAR 1914.—*Continued.*

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
423	Trochu	Loiselle & Heinke	Lignite
424	Wabamun	Mullen Coal Co.	Lignite
425	Raymond	Depew & Miller	Lignite
426	Trochu	Robert Halbert, Jr.	Lignite
427	Halkirk	Benjamin Hronek	Lignite
428	Namao	Fleming Brothers	Lignite
429	Entrance	McKenzie & Mann	Bituminous
430	Edberg	Hugh Weaver	Lignite
431	Edson	M. C. Rambo	Bituminous
432	Reid Hill	James Ashmore	Lignite
433	Lineham	Alex. Lehman	Lignite
434	Elcan	Excelsior Coal Co.	Lignite
435	Lucky Strike ..	E. F. Bye	Lignite
436	Rosedale	Star Coal Mines, Ltd.	Lignite
437	Queenstown ..	Wm. H. Hodson	Lignite
438	Cochrane	J. D. Curren	Bituminous
439	Drumbeller ..	Wm. D. Gordon	Lignite
440	Maycroft	Herschel Kaye	Bituminous
441	Halkirk	Martin Johnson	Lignite
442	Namao	W. & G. Willisroft	Lignite
443	Sheerness	William John Anderson	Lignite
444	Twining	Anthony Jackson	Lignite
445	Twining	Chas. S. Wilson	Lignite
446	Royal View ..	Alfred Ruffell	Lignite
447	Loveland	Louis Martin	Lignite
448	Bow Island ..	Walter Wallwork	Lignite
449	Hastings Coulee	J. R. Turney	Lignite
450	Strome	William Robinson	Lignite
451	Halkirk	Louis Berggren	Lignite
452	Pincher Creek..	Thomas J. Sparrow	Bituminous
453	Pincher Creek..	William McFarlane	Bituminous
454	Warner	Thomas Ernest Simpson	Lignite
455	Fishburn	Daniel Fitzpatrick	Bituminous
456	Hillspring	Edmund J. Brooks	Bituminous
457	Pincher Creek..	Bradley & Watson	Bituminous
458	Fishburn	Jas. Alex. Gilruth	Bituminous
459	Swalwell	Fred. Gardner	Lignite
460	Gem	Clement & King	Lignite
461	Yetwood	T. E. Smith	Lignite
462	Maycroft	James Jeffrey	Bituminous
463	Maycroft	Wilson Dennis	Bituminous

MINES RE-OPENED DURING 1914

NO.	ADDRESS	OPERATED BY
99	Clover Bar	The Great West Coal Co., Ltd.
131	Elcan	Ensign Coal Mining Co.
136	Long Coulee	Henry Theriault
214	Three Hills	William Halbert
291	Gadsby	Joseph Wagner
314	Ardley	The Calgary Collieries, Ltd.
384	Three Hills	Union Coal Company, Ltd.
407	Milk River	Robert Jaynes

MINES ABANDONED DURING 1914

NO.	ADDRESS	OPERATED BY	CHARACTER OF COAL
89	Clover Bar	The Great West Coal Co., Ltd.	Lignite
137	Reid Hill	W. J. Greenaway	Lignite
181	Taber	Consolidated Monarch Collieries, Ltd.	Lignite
185	Bow Island	David H. Long	Lignite
196	Namoo	H. Spiers	Lignite
200	Little Plume	Geddes, Day & Gibb	Lignite
211	Halkirk	H. V. Green	Lignite
213	Grassy Lake	Samuel Ervine	Lignite
228	Taber	The White Ash Collieries, Ltd.	Lignite
240	Halkirk	S. G. Bevier	Lignite
254	Lethbridge	George Heighes	Lignite
255	Gaetz Valley	T. D. Conger	Lignite
277	Kippenville	Duncan Kippen	Lignite
287	Big Valley	G. W. Davison	Lignite
289	Halkirk	Cable Brothers & Williams	Lignite
290	Big Valley	R. T. Davison	Lignite
299	Standard	R. W. Brummer	Lignite
301	Big Valley	U. G. Robinson	Lignite
319	Wabamun	Lake View Coal Co.	Lignite
325	Castor	Thomas A. Marshall	Lignite
326	Dewinton	W. M. Davis	Lignite
332	Redcliff	Redcliff Clay Products Co., Ltd.	Lignite
334	Suffield	Robert McAllister	Lignite
335	Drumheller	Vulcan Coal Co., Ltd.	Lignite
344	Winnifred	Elsworth Raber	Lignite
350	Prairie Grange	Northern Construction Co., Ltd.	Lignite
352	Gainford	The Gainford Collieries, Ltd.	Lignite
355	Munson	Geo. F. Stainton	Lignite
356	Medicine Hat	James H. Amos	Lignite
357	Hillspring	Thos. Nash	Bituminous
374	Dinant	Schmidt & Wilson	Lignite
376	Perbeck	Nelson & Johnson	Lignite
382	Windy Ridge	George Winslow Thorpe	Lignite
401	Lucky Strike	William Black	Lignite
410	Whitla	H. F. Ensign	Lignite
411	Magrath	Samuel Pyrah	Lignite
414	Buford	Dan Popik	Lignite
425	Raymond	Depew & Miller	Lignite
426	Trochu	Robert Halbert, Jr.	Lignite
431	Edson	M. C. Rambo	Lignite
435	Lucky Strike	E. F. Bye	Lignite
438	Cochrane	J. D. Curren	Bituminous
446	Royal View	Alfred Ruffell	Lignite
457	Pincher Creek	Bradley & Watson	Bituminous
458	Fishburn	Jas. Alex. Gilruth	Bituminous

LIST OF CANDIDATES Who Successfully Passed the Examinations
Held During the Year 1914.

NAME	ADDRESS	NO. OF CERT.
Mine Managers.		
Brydon, Andrew D.	Canmore	4
Crowder, Harry	Edmonton	5
Leblanc, Emile	Taber	6
McKelvie, James	Nordegg	7
Russell, James	Lethbridge	8
Reid, Adam Hugh	Commerce	3
Stephenson, Thomas	Bellevue	...
Williams, Thomas B.	Canmore	2
Welch, James Douglas	Nordegg	1
Overmen.		
Brownrigg, John H.	Hosmer, B. C.	...
Bilson, George Herbert	Beverly	2
Coupland, Edward	Bellevue	8
Dennis, Frederick William	Lethbridge	3
Hunter, Charles	Beverly	4
Hunter, Alex Brunton	Coleman	7
Harries, Henry Cecil	Coleman	9
Heathcote, Joseph	Edmonton	10
James, William	Pocahontas	5
Littler, Robert	Bankhead	6
Roberts, John	Bellevue	12
Williams, John Jenkyn	Lovett	11
Examiners.		
Adams, Thomas Henry	Coalhurst	16
Anderson, Andrew	Bellevue	39
Atherton, Edward	Bickerdike	40
Appleton, John Thomas	Taber	...
Byron, John	Coalhurst	11
Brearley, Garnett	Lethbridge	18
Barclay, William	Bankhead	22
Brown, John Francis	Pocahontas	29
Barclay, William Greig	Pocahontas	30
Byers, John Walter	Taber	48
Billington, Ed. Eric	Coleman	...
Crawford, William	Lethbridge	8
Coutts, David	Hardieville	23
Crabb, Sam Alex Buckland	Lethbridge	38
Chaplow, Joseph	Lethbridge	49
Clarke, Robert Gordon	Drumheller	...
Campbell, John Hugh	Canmore	...
Devoy, William	Hardieville	9
Dean, William	Bankhead	20
Evans, Nathaniel	Passburg	54
Foster, William	Pocahontas	31
Ferguson, John	Commerce	34
Grant, Robert	Lethbridge	10
Goldie, William	Lethbridge	24
Graham, Robert	Clover Bar	50
Gilday, Michael Edward	Drumheller	63
Harmison, William	Mountain Park	41
Hynd, William	Elcan	52
Hutton, Hugh	Bellevue	60
Hargreaves, George	Lethbridge	65
Hunter, Hugh	Hillcrest	...
James, John	Pocahontas	28
Jones, David	Taber	55
Kenyon, William	Mountain Park	44
Lynch, Stewart	Canmore	26
Loxton, John	Fernie, B. C.	51

LIST OF CANDIDATES Who Successfully Passed the Examinations
Held During the Year 1914.—*Continued.*

NAME	ADDRESS	NO. OF CERT.
Lohoar, James	Lovett	...
Muir, Alexander	Hardieville	12
Miller, Joseph	Stafford Village	14
Muir, Robert	Bankhead	21
Murray, David	Hillcrest	35
Mather, John	Bickerdyke	45
Muir, James	Bankhead	57
Marsh, Ernest	Taber	61
Morgan, William John	Canmore	64
Martin, William Henry	Canmore	...
Marsh, John Henry	Taber	...
McGowan, James Kerr	Lethbridge	13
McLeod, John A.	Edmonton	...
McLellan, John Angus	Lovett	...
Nicol, George	Pocahontas	27
Park, Alex C.	Lethbridge	25
Porteous, Alexander	Hillcrest	36
Purdy, Stearns J.	Bellevue	37
Parker, Joseph	Drumheller	47
Puckett, Owen Lovejoy	Lovett	53
Rebar, Mike	Hardieville	19
Rees, Daniel	Bellevue	56
Russell, Arthur	Standard	59
Steele, John Wilson	Lethbridge	17
Severns, Matthew	Strathcona	42
Spencer, Murray A.	Lovett	43
Snarey, George	Taber	62
Thomas, John Benjamin	Edmonton	46
Thompson, Andrew Roger	Lovett	66
Whitefield, Isaac	Coalhurst	15
Williams, John T.	Bellevue	33
Wesnedge, William	Nordegg	58
Wardrop, James	Canmore	...

CERTIFICATES Issued by the Government of the N.-W. Territories
Under the Coal Mines Regulation Ordinance.

NAME	ADDRESS	NO. OF CERT.
Mine Managers.		
Addie, W.	Lundbreck	19
Bastian, J.	Taber	43
Bradshaw, G. B.	Nanaimo, B. C.	61
Broome, G. H.	New Zealand	46
Brown, J.	Banff	18
Collins, W. F.	Blairmore	24
Colville, A.	(Deceased)	52
Drinnan, R. G.	Fernie, B. C.	29
Elliott, D.	Blairmore	20
Emmerson, C.	Bellevue	49
Emmerson, J.	Frank	50
Evans, D.	Michel, B. C.	1
Finlayson, J.	Frank	30
Flint, W. G.	Canmore	56
Green, R.	Blairmore	58
Hamilton, William L.	Passburg	4
Hardie, W. D. L.	Lethbridge	2
Hargreaves, James	Taber	9
Henrietta, Charles M.	Bysevilla, Ohio	26
Heathcote, Elijah	Coal Creek, B. C.	23

CERTIFICATES Issued by the Government of the N.-W. Territories
Under the Coal Mines Regulation Ordinance.—*Continued.*

NAME	ADDRESS	NO. OF CERT.
John, John	Fernie, B. C.	44
Jones, Samuel A.	Lethbridge	57
Kerr, Alexander	Tonkin, B. C.	27
Lewellyn, D. R.	Michel, B. C.	42
Little, John	Coalfields	5
Livingstone, Robert	Lethbridge	16
Manley, Henry Lewis	Fernie, B. C.	41
Mills, Thomas	Nanaimo, B. C.	35
Morris, Cyrus	Frank	12
Morris, James J.	Canmore	3
Morton, T. R.	Michel, B. C.	63
McEvoy, James	Fernie, B. C.	17
McLean, Donald	Ladysmith, B. C.	62
McVicar, Samuel	Frank	59
Parker, John L.	North Star	25
Pearson, R. N.	Frank	38
Pearson, Robinson	Fernie, B. C.	11
Powell, John W.	Coleman	60
Raisbeck, Luke	Taber	47
Reynolds, E. E.	Lethbridge	33
Richards, J. A.	Edmonton	39
Russell, Thomas	Victoria, B. C.	45
Sharp, Alex	Rossland, B. C.	53
Shepherd, F. H.	Victoria, B. C.	34
Simister, Charles	Fernie, B.C.	21
Smith, Frank B.	Edmonton	7
Strachan, Robert	Fernie, B. C.	31
Stockett, Thomas R., Jr.	Nanaimo, B. C.	10
Stockett, Lewis	Bankhead	51
Symons, C. C.	Coalfields	37
Waite, Archibald	Taber	15
Wall, William Henry	Nanaimo, B. C.	32
White, E. Proctor	Lethbridge	8
Whiteside, O. E. S.	Coleman	6
Williams, W. P.	Blairmore	36
Wilkinson, George	Nanaimo, B. C.	54
Wilson, Arthur R.	Lethbridge	28
Wilson, David G.	Hosmer, B. C.	22
Wright, H. B.	Fernie, B. C.	40
Wyllie, John B.	(Deceased)	13
Pit Bosses.		
Bastian, J.	Taber	21
Bastian, T. W.	Bankhead	27
Chestnut, C.	Blairmore	30
Torkill, T.	Michel, B. C.	13
Davies, D.	Coleman	31
Davis, A.	Lethbridge	4
Duggan, R. G.	Taber	19
Emmerson, C.	Bellevue	3
Flint, W. G.	Canmore	16
Fraser, G. L.	Coleman	25
Giffen, H. R.	Coalfields, B. C.	14
Green, R.	Blairmore	17
Hall, Oliver	Bellevue	26
Jones, Samuel A.	Lethbridge	18
Kerr, John	Coalfields, B. C.	33
Livingstone, John C.	Lethbridge	5
Livingstone, Robert	Lethbridge	6
Lowrie, Ralph	Frank	34
Miller, John K.	Bankhead	29
Musgrove, John	Canmore	2
McKean, John W.	Lethbridge	24

CERTIFICATES Issued by the Government of the N.-W. Territories
Under the Coal Mines Regulation Ordinance.—*Continued.*

NAME	ADDRESS	NO. OF CERT.
McVicar, Samuel	Frank	23
Ostheidt, Gus.	Bankhead	1
Pearson, W. G.	Frank	15
Phillips, Charles	Frank	20
Scott, Hugh	Lethbridge	7
Sequin, Joseph A.	Estevan	22
Steele, Thomas	Coleman	12
Thomas, David	Bankhead	28
Waite, Archibald	Taber	10
Weatherby, Cory	Hillcrest	11
Williams, Thomas H.	Canmore	8
Fire Bosses.		
Anderson, J.	Frank	13
Bastian, T. W.	Bankhead	30
Cawthorne, L.	Frank	46
Chestnut, C.	Blairmore	28
Churchill, J.	Frank	45
Cowan, W.	Bankhead	4
Davies, T.	Frank	49
Davies, W. J.	(Deceased)	16
Downs, T.	Canmore	24
Duggan, R. G.	Taber	27
Fairhurst, H.	Lethbridge	39
Gates, H.	Coleman	26
Giffen, H. R.	Coalfields, B. C.	19
Griffiths, E. H.	Canmore	33
Hadfield, John	Canmore	23
Haines, Thomas	Coleman	37
Harrison, Thomas	Bankhead	29
Harvie, Robert	Lethbridge	40
Holmes, G. E.	Fernie, B. C.	15
Hood, Andrew	Frank	20
James, Joseph	Frank	25
Jones, Erskine	Coalfields, B. C.	47
Jones, Evan	Coalfields, B. C.	12
Jones, Samuel A.	Lethbridge	17
Livingstone, John C.	Lethbridge	18
Livingstone, Robert	Lethbridge	7
Mattson, Matt	Frank	34
Musgrove, William	Canmore	9
McCulloch, Alex	Lille	43
McDonald, J. A.	Blairmore	44
McGregor, Alex	Frank	41
McKay, John James	Lethbridge	5
McKinnon, H. G.	Canmore	36
Phillips, Charles	Frank	14
Rice, Awrey	Frank	48
Scott, Hugh	Lethbridge	8
Scott, Robert	Lethbridge	6
Sedlock, Joseph	Canmore	22
Smith, Hugh	Canmore	35
Smith, Robert	Canmore	32
Spencer, W. J.	Bankhead	51
Stott, John	Lethbridge	38
Taylor, William	Lethbridge	10
Thomas, David	Bankhead	31
Turner, Samuel H.	Frank	21
Waite, Archibald	Taber	11
Watkins, John W.	Canmore	3
Watkins, W. Ed.	Canmore	1
Webb, James F.	Canmore	42
Wilson, John	Canmore	2

CERTIFICATES Issued by the Government of the Province of Alberta
Under the Coal Mines Regulation Ordinance.

NAME	ADDRESS	NO. OF CERT.
Mine Managers.		
Coulthard, R. W.	Blairmore	8
Fraser, Norman	Michel, B. C.	1
Graham, C.	Nanaimo, B. C.	7
Huntrods, E. S. F.	Taber	3
Little, William F.	Canmore	4
Marsh, John	Taber	6
Reed, Thomas	Northfield, B. C.	5
Robertson, John	Frank	2
Pit Bosses.		
McGregor, Alex	Frank	1
Rice, Awrey	Frank	2
Wilson, William George	Coleman	3
Fire Bosses.		
Ferguson, C. J.	Canmore	4
Rawson, Thomas Samuel	Frank	1
Salmond, James M.	Bankhead	6
Sparrow, Edwin	Frank	2
Watters, John	Bankhead	5
Wilson, William George	Coleman	3

CERTIFICATES Issued by the Government of the N.-W. Territories
and by the Government of the Province of Alberta,
Being Duplicate Certificates.

NAME	ADDRESS	NO. OF CERT.
Mine Managers.		
Coulthard, R. R.	Blairmore	24
Evans, D.	Michel, B. C.	14
Hargreaves, James	Taber	48
Pit Bosses.		
Chestnut, C.	Blairmore	30
Musgrove, John	Canmore	9
Musgrove, William	Canmore	32
Fire Bosses.		
Chestnut, C.	Blairmore	28
Downs, T.	Canmore	6
Hadfield, John	Coleman	21
Haliday, George William	Commerce	248
Stott, John	Lethbridge	231
Turner, Samuel H.	Frank	22

CERTIFICATES Issued by the Government of the Province of Alberta
Under the Coal Mines Act.

NAME	ADDRESS	NO. OF CERT.
Mine Managers.		
Alderson, Fred Dunn	(Deceased)	52
Allen, Peter	Coleman	72
Aspinwall, Francis	Bellevue	22
Ashburner, Edward	Lethbridge	40
Barnes, Arthur Winfield	Passburg	74
Baxter, Andrew W.	Lethbridge	47
Black, Ernest D.	Coalhurst	84
Christianson, Peter	Edmonton	48
Church, J. A. H.	Frank	11
Clyne, James	Canmore	69
Crowder, J.	Coleman	33
Cunningham, G. F.	Edmonton	7
Darbyshire, J.	Bellevue	35
Davidson, W. A.	Coleman	25
Davis, David	Coleman	62
De Hart, Joseph Bertram	Coalhurst	86
Dickson, G. H.	Coleman	2
Duggan, William H.	Edmonton	85
Dunn, A. C.	Edmonton	18
Ellis, W.	Nanton	15
Fraser, G. L.	Coleman	1
Givin, Homer Holt	Royal View	57
Gray, David	Cochrane	65
Guernsey, Forbes William	Bankhead	80
Hamilton, Robert	Lundbreck	4
Harrison, Stephen	Lethbridge	16
Hart, John	Edmonton	23
Holden, James	Bankhead	14
Horne, Robert	Coleman	12
Horne, Thomas	Coleman	6
Howells, Nathaniel	Bellevue	64
Johnson, Moses	Taber	79
Jones, David	Strathcona	67
Kellock, George	Coleman	59
Kinsman, Alexander	Hosmer, B. C.	70
Knox, Thomas K.	Coal Creek, B. C.	28
Lee, Robert John	Elcan	56
Marshall, John William	Clover Bar	78
Mather, Thomas	Bickerdike	81
Maxwell, William	Pincher Creek	27
Millar, Andrew A.	Edmonton	54
Milne, Morgan C.	Pocahontas	83
Moore, Samuel M.	Bankhead	26
Musgrove, William	Canmore	76
MacAulay, Donald A.	Coleman	42
McCulloch, James	Corbin, B. C.	41
McDonald, Duncan	Canmore	60
McDonald, John R.	Medicine Hat	29
McLenhan, J. A.	Strathcona	39
McMillan, J. H.	Lethbridge	17
O'Donnell, Thomas	Kipp	61
Pickles, William	Cardiff	77
Pitcher, Normah Charles	Lethbridge	75
Quigley, James S.	Hillcrest	21
Reid, John Callum	Lethbridge	53
Richards, Clifton C.	Bankhead	36
Roberts, Edward Iver	Strathcona	55
Robertson, John	Lundbreck	9
Russell, John	Clover Bar	44
Saville, Enoch O.	Taber	45
Scott, Andrew N.	Edmonton	19

CERTIFICATES Issued by the Government of the Province of Alberta
Under the Coal Mines Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.
Scott, Alex	Strathcona	5
Shanks, John	Coal Creek, B. C.	51
Shaw, William	Canmore	46
Shone, Samuel	(Deceased)	33
Sparrow, Edwin	Lundbreck	13
Stevens, Leonard C.	Coal Creek, B. C.	31
Stevenson, John	Lethbridge	68
Stevenson, Jr., William	Pinto, Sask.	87
Stirling, John T.	Edmonton	8
Stewart, Robert T.	Fernie, B. C.	50
Thain, Harry S.	Lethbridge	34
Thomas, John Ira	Edmonton	49
Thomas, Joseph David	Passburg	66
Thomas, Willis P.	Diamond City	58
Thorne, Benj. L.	Hosmer, B. C.	32
Wark, S. B.	Passburg	37
Watson, William	Coleman	73
Watters, John	Bankhead	30
Weatherbee, C.	Coleman	2
Willey, Edward	Fernie, B. C.	71
Williams, T. H.	Taber	10
Pit Bosses.		
Allen, Peter	Coleman	72
Anderson, J.	Bellevue	2
Aspinall, Francis	Bellevue	27
Bamling, J.	Diamond City	44
Barclay, Andrew	Frank	111
Blake, Henry	Bellevue	128
Bowie, J.	Frank	4
Brockhouse, Israel Bertram	Milk River	74
Bridge, Edward	Bellevue	99
Brown, Allan James	Pocahontas	105
Brown, William	Commerce	126
Campbell, Kenneth S.	Blairmore	132
Clark, J. C.	Blairmore	49
Clay, E.	Oxville	28
Clemenson, John	Bankhead	58
Clyne, J.	Canmore	53
Cooke, Joseph	Burmis	66
Coupland, George	Lundbreck	77
Cranston, Michael	Pocahontas	119
Crawford, Alexander	Beaver Mines	125
Crowder, Harry	Coleman	69
Crowder, J.	Coleman	10
Dalziel, Robert	Clover Bar	122
Davies, J.	Coleman	11
Davies, S.	Coal Creek, B. C.	18
Davies, T.	Frank	54
Davies, Thomas Owen	Pincher Creek	104
Davis, J.	Lethbridge	31
Davidson, David	Blairmore	94
Digman, John Hynd	Coalhurst	134
Dixon, S.	Lille	24
Dunn, J. P.	Strathcona	9
Eccleston, W.	Michel, B. C.	16
Evans, Thomas Rhys.	Coleman	137
Foster, W. R.	Michel, B. C.	51
Fox, A.	Taber	42
Francis, J.	Taber	29
Fulton, James Kennedy	Coleman	133

CERTIFICATES Issued by the Government of the Province of Alberta
Under the Coal Mines Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.
Garbett, Richard	Corbin, B. C.	100
Garrett, John	Blairmore	123
Gilliland, William	Strathcona	61
Hallworth, Albert	Bellevue	65
Hamilton, Allan	Pincher Creek	78
Hartley, William	Bankhead	114
Harvie, Robert	Lethbridge	1
Heeley, William Grafton	Bickerdike	80
Hill, James	Lethbridge	84
Horne, Robert	Coleman	12
Horswell, John	Cardiff	34
Howells, Nathaniel	Michel, B. C.	55
Hughes, Daniel John	Diamond City	110
Hunter, Henry	Edmonton	102
Hutton, John	Bellevue	93
Hutchinson, A. M.	Coleman	6
Johnson, Moses	Taber	46
Jones, David	Strathcona	48
Jones, Peter	Lethbridge	92
Jordon, William	Taber	112
Kaye, Herschel	Pocahontas	129
Kellock, George	Coleman	39
Kellock, James	Coleman	82
Keith, John Daniel	Coalhurst	107
Leblanc, Emile	Taber	127
Lee, Robert John	Grassy Lake	56
Letcher, William Martin	Bankhead	96
Luck, George	Bellevue	70
Massey, Harry	Corbin, B. C.	116
Mason, Samuel	Blairmore	130
Mather, Thomas	Bickerdike	106
Miard, Harry E.	Coal Creek, B. C.	64
Moore, Thos. E.	Eyremore	47
Morgan, Daniel	Edmonton	17
Morgan, Owen	Blairmore	121
Morris, John	Lundbreck	8
Muir, David	Pincher Creek	108
Munro, William Kennedy	Blairmore	76
Murphy, Peter J.	Clover Bar	91
MacDonald, James A.	Bellevue	79
McDonald, Duncan	Canmore	60
McIntyre, John J.	Calgary	88
MacKay, Angus	St. Albert	81
McKay, Donald	Bankhead	3
McKelvie, James	Hosmer, B. C.	43
McLenhan, John A.	Strathcona	33
McMillan, Donald	Pincher Creek	71
Nicol, James	Frank	36
Oliphant, Joseph H.	Bellevue	59
Park, Stewart Gray	Lethbridge	57
Parker, Levi	Bellevue	68
Parry, Thomas	Coleman	109
Parsons, T. Lloyd	Edmonton	26
Penman, John Smith	Rosenroll	120
Pickles, William	Edmonton	35
Picton, Daniel	Passburg	118
Powell, Albert Edward	Strathcona	85
Prentice, John	Lille	45
Queen, Andrew Mitchell	Lethbridge	124
Quigley, Daniel Hugh	Lethbridge	73
Ramsay, Peter Millar	Lethbridge	86
Rankin, George	Michel, B. C.	41

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NAME	ADDRESS	NO. OF CERT.
Richards, Samuel	Corbin, B. C.	98
Roberts, D. E.	Coleman	14
Roberts, Ebenezer	Bellevue	87
Roberts, E. I.	Strathcona	52
Schmidt, Otto Prentiss	Camrose	115
Scott, Alexander	Pocahontas	103
Scott, Andrew N.	Edmonton	19
Shanks, David	Coal Creek, B. C.	117
Shaw, Thomas John	Canmore	75
Shaw, William	Canmore	21
Shone, Samuel	(Deceased)	23
Sihvon, William	Bellevue	40
Sloane, Thomas W.	Burmis	67
Sparrow, Edwin	Lundbreck	7
Stephenson, Joseph	Bellevue	135
Stephenson, Thomas	Bellevue	136
Stewart, J. M.	Fernie, B. C.	50
Strickland, Thomas	Clover Bar	101
Taylor, George Warren	Lethbridge	83
Taylor, Tom	Hillcrest	62
Teppo, Herman	Bellevue	15
Thain, Harry S.	Lethbridge	32
Thomas, Isaac	Coleman	131
Thomas, John	Frank	89
Thomas, John	Diamond City	30
Thomas, Joseph D.	Hosmer, B. C.	37
Thompson, Joseph	Coleman	97
Tonge, Thomas	Bickerdike	90
Watkins, W. E.	Lille	20
Watson, William	Coleman	13
Watters, Alexander Grant	Pocahontas	95
Watters, John	Bankhead	22
Welch, James Douglas	Taber	113
Whitelaw, Thomas	Coleman	25
Winter, Archibald	Strathcona	63
Wright, J. S.	Canmore	38
Fire Bosses.		
Adlam, William	Hillcrest	108
Alderson, R. D.	Coleman	17
Allan, Alexander McD.	Hosmer, B. C.	247
Allen, William Charles	Coleman	205
Archer, Roland	Hillcrest	132
Archibald, David	Bickerdike	222
Ashurst, W.	Coleman	82
Aspinall, F.	Bellevue	32
Baimbridge, James	Pocahontas	235
Baird, John	Blairmore	243
Bansemmer, R.	Bankhead	14
Barnes, B. J.	Coal Creek, B. C.	92
Barber, J.	Frank	7
Barber, James S.	Hillcrest	144
Berford, Edward	Elcan	196
Besso, A.	Canmore	80
Blake, Henry	Bellevue	133
Blake, P.	Lundbreck	23
Blakemore, Roydon Ellers	Edmonton	227
Boulton, W. E.	Bankhead	48
Bovio, Michael	Bellevue	146
Bradley, Thomas	Hillcrest	138
Briscoe, Daniel	Hillcrest	117

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NAME	ADDRESS	NO. OF CERT.
Brown, Alan James	Cardiff	163
Brown, T.	Bankhead	24
Brownrigg, J. H.	Frank	35
Brovey, A. C.	Edmonton	64
Burrows, C.	Frank	40
Campbell, Kenneth S.	Edmonton	102
Carson, George	Frank	154
Carson, James	Frank	120
Catchpole, C.	Three Hills	2
Charlton, Samuel	Hillcrest	179
Clark, J. C.	Blairmore	33
Clark, Robert	Lethbridge	212
Clemenson, John	Bankhead	105
Clyne, J.	Canmore	65
Cole, J. J.	Bankhead	66
Cooke, J.	Bankhead	4
Coombs, Walter Percy	Taber	164
Coupland, Edward	Lundbreck	173
Coupland, George	Bellevue	148
Coutts, George	Lethbridge	210
Cox, John	Coleman	193
Cranston, Michael	Clover Bar	218
Crawford, George	Frank	160
Crawford, John	Beaver Mines	197
Crockett, Levi A.	Hillcrest	131
Davidson, David	Edmonton	170
Davies, Thomas Owen	Coleman	109
Devonshire, G.	Canmore	31
Digman, John H.	Royal View	193
Dixon, S.	Lille	18
Doodson, Robert	Coal Creek, B. C.	177
Draper, Robert	Cochrane	214
Duggan, E. G.	Taber	41
Duncan, Ninian Selkirk	Cochrane	211
Duthie, Alexander Ferris	Pocahontas	184
Eccleston, W.	Michel, B. C.	20
Embree, Merton Byers	Bankhead	239
Evans, D.	Frank	83
Evans, H.	Taber	94
Evans, Hugh	Lethbridge	156
Fisher, Samuel	Passburg	169
Fiske, G. E.	Edmonton	88
Ford, Allen	Burmis	183
Fowers, C. W.	Canmore	50
Fox, A.	Taber	55
Fraser, J.	Coleman	8
Garbett, Richard	Michel, B. C.	180
Garrett, John	Lille	147
Gatiss, R.	Long Coulee	85
Gillespie, John Maclare	Coleman	111
Gilliland, William	Strathcona	123
Gladwin, J.	Edmonton	97
Gorton, James	Hillcrest	203
Gregory, John B.	Passburg	128
Griffiths, John Thomas	Lille	168
Griffiths, T. J.	Lille	77
Gwilliam, David J. M.	Hillcrest	130
Halliday, George	Champion	155
Hallworth, Albert	Bellevue	52
Hamilton, Charles	Edmonton	36
Hannen, James	Canmore	1
Harries, Henry Cecil	Coleman	209

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NAME	ADDRESS	NO. OF CERT.
Hartley, William	Bankhead	110
Harvie, John	Taber	68
Hayes, Robert	Lundbreck	60
Heap, Robert	Lundbreck	206
Henderson, James	Reid Hill	134
Henderson, Samuel	Reid Hill	136
Henderson, W.	Minott	61
Higgins, Alfred	Bankhead	25
Hill, James	Royal View	114
Hilling, James	Coleman	43
Holden, James	Bankhead	13
Hughes, William Robert	Lille	181
Hulme, Charles	Hillcrest	124
Humble, Stephen T.	Bellevue	29
Hunter, Alexander Brunton	Coleman	207
Hutchison, Peter	Frank	202
Hutton, David Telfer	Bellevue	241
Hutton, George	Bellevue	186
Hutton, Isaac	Bellevue	99
Hutton, John	Bellevue	135
Ironmonger, John	Hillcrest	145
Jackson, John	Bellevue	246
James, Henry	Coleman	53
James, William	Pocahontas	234
Jones, David	Edmonton	69
Jones, Jack	Cardiff	127
Jones, Peter	Lethbridge	195
Jordon, William	Taber	220
Joyce, Michael	Bickerdike	224
Kaye, Herschel	Maycroft	191
Kemp, David	Beaver Mines	201
Kerr, Robert	Lundbreck	76
Kerr, Robert T.	Passburg	75
Kerr, William R.	Coleman	89
Kirkeberg, Henry S.	Michel, B. C.	87
Laight, Jonas	Medicine Hat	233
Lamont, David	Frank	98
Learmouth, A. J.	Lundbreck	42
Leblanc, Emile	Coleman	153
Letcher, John J.	Hillcrest	149
Littler, John	Bankhead	190
Littler, Mathew	Michel, B. C.	226
Littler, Robert	Michel, B. C.	166
Love, William	Edmonton	86
Loxton, George	Fernie, B. C.	176
Ludbrook, Ellis Edward	Bickerdike	237
Machin, J. C.	Strathcona	46
Mackie, John	Corbin, B. C.	221
Makin, John William	Coleman	240
Mason, Samuel	Taber	187
Massey, Harry	Michel, B. C.	172
Mather, Thomas	Taber	96
Melling, Peter	Coalhurst	208
Miller, Walter	Bellevue	159
Moore, James H.	Coleman	167
Moore, Thomas E.	Eyremore	56
Morgan, Owen	Coleman	143
Morris, David	Edmonton	45
Morrison, Malcolm	Coleman	189
Muir, David	Lundbreck	151
Munro, William K.	Lille	150
Murray, John	Lille	174

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NAME	ADDRESS	NO. OF CERT.
McDevitt, James J.	Tofield	129
McDonald, Duncan	Canmore	112
McDonald, Hector	Bankhead	115
McDonald, James A.	Lille	91
McDonald, James Ottis Cove	Coleman	225
McDonald, William C.	Lethbridge	122
McGarry, Martin	Michel, B. C.	59
McGeough, Joseph Patrick	Bellevue	219
McGladrie, John	Lille	152
McKinnon, A. J.	Canmore	62
McLeary, Stewart	Lethbridge	58
McLenhan, John A.	Strathcona	51
McMillan, Donald	Coleman	107
McMillan, William D.	Lethbridge	72
McMullin, Joseph	Hillcrest	171
McVey, William	Frank	39
Nanson, Thomas H.	Canmore	15
Nelson, Horatio	Lundbreck	11
Nicol, James	Frank	34
O'Donnell, Thomas	Kipp	139
Oliphant, J. H.	Frank	26
Oliphant, John	Bellevue	79
Ottewell, William John	Clover Bar	245
Park, Stewart G.	Lethbridge	121
Park, William	Lethbridge	194
Parker, Levi	Bellevue	100
Parkes, John Thomas	Lethbridge	236
Parry, Thomas H.	Hillcrest	119
Patterson, John	Hillcrest	126
Pickering, Gabe	Taber	104
Picton, Daniel	Passburg	178
Picton, William	Frank	78
Pounder, George	Pincher Creek	84
Powell, Albert E.	Clover Bar	71
Prentice, John	Lille	67
Queen, Andrew Mitchell	Lethbridge	228
Quigley, Daniel H.	Lethbridge	157
Radford, James	Bellevue	200
Rae, John	Coleman	242
Rawlinson, Roland	Burmis	182
Rayner, Frederick	Frank	188
Reid, James	Taber	158
Richards, Evan	Cardiff	162
Richards, George	Coleman	137
Richards, Samuel	Corbin, B. C.	175
Richardson, Alfred	Lethbridge	125
Roberts, Ebenezer	Passburg	118
Roberts, John	Nelson, B. C.	140
Roberts, William	Strathcona	95
Robinson, John Herbert	Hillcrest	106
Rose, Walter	Lundbreck	54
Rowbotham, William Henry	Royal View	116
Saudino, Joe	Bellevue	238
Schmidt, O. P.	Edmonton	44
Scott, Andrew N.	Edmonton	28
Scott, Alexander	Pocahontas	180
Shaw, Eli	Canmore	229
Shaw, Thomas John	Canmore	113
Sherratt, Owen, Sr.	Coleman	199
Sihvon, William	Bellevue	27
Singleton, Robert	Lundbreck	47
Smith, A. J. P.	Bellevue	103

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NAME	ADDRESS	NO. OF CERT.
Smith, Ralph	Canmore	3
Smith, Thomas	Hillcrest	216
Stephenson, Joseph	Commerce	232
Stephenson, Thomas	Bellevue	230
Stobbs, Joseph	Diamond City	217
Taylor, Thomas	Lundbreck	30
Teppo, Herman	Bellevue	19
Thomas, Isaac	Coleman	204
Thomas, Joseph D.	Frank	81
Thomas, John J.	Frank	74
Thompson, Joseph	Coleman	165
Thompson, Thomas	Coleman	93
Thompson, Thomas	Lundbreck	16
Thomson, Thomas Wilson	Bankhead	161
Tonge, Thomas	Lundbreck	5
Tully, Thomas	Fernie, B. C.	215
Turner, William	Hillcrest	244
Vola, Serafino	Canmore	63
Watters, A. G.	Bankhead	49
Welsh, William	Lundbreck	9
Weston, Thomas	Strathcona	73
White, Harry	Frank	90
Williams, John Jenkyn	Bickerdike	223
Williams, Walter Edward	Clover Bar	213
Willmott, William	Canmore	38
Wright, John S.	Canmore	12
Wrigley, Walter	Frank	37
Young, Samuel	Cardiff	101
Young, Thomas	Taber	57

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NAME	ADDRESS	NO. OF CERT.
Managers.		
Brydon, Andrew Dempster	Canmore	4
Crowder, Harry	Edmonton	5
Leblanc, Emile	Taber	6
McKelvie, James	Nordegg	7
Reid, Adam Hugh	Commerce	3
Russell, James	Lethbridge	8
Welch, James Douglas	Nordegg	1
Williams, Thomas B.	Canmore	2
Overmen.		
Bilson, George Herbert	Beverly	2
Coupland, Edward	Bellevue	8
Dennis, Frederick William	Lethbridge	3
Hunter, Charles	Beverly	4
Hunter, Alex Brunton	Coleman	7
Harries, Henry Cecil	Coleman	9
Heathcote, Joseph	Edmonton	10
James, William	Pocahontas	5
Littler, Robert	Bankhead	6
Roberts, John	Bellevue	12
Williams, John Jenkyn	Lovett	11

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Under the Mines Act.—*Continued.*

NAME	ADDRESS	NO. OF CERT.
Examiners.		
Adams, Thomas Henry	Coalhurst	16
Anderson, Andrew	Bellevue	39
Atherton, Edward	Bickerdike	40
Beal, George F.	Bellevue	7
Byron, John	Coalhurst	11
Brearley, Garnett	Lethbridge	18
Barclay, William	Bankhead	22
Brown, John Francis	Pocahontas	29
Barclay, William Greig	Pocahontas	30
Byers, John Walter	Taber	48
Crawford, William	Lethbridge	8
Coutts, David	Hardieville	23
Crabb, Sam. Alex. Buckland	Lethbridge	38
Chaplow, Joseph	Lethbridge	49
Dennis, Frederick William	Lethbridge	3
D'Altroy, Arthur Charles	Commerce	6
Devo, William	Hardieville	9
Dean, William	Bankhead	20
Evans, Nathaniel	Passburg	54
Foster, William	Pocahontas	31
Ferguson, John	Commerce	34
Green, Henry Victor	Halkirk	1
Grant, Robert H.	Camrose	2
Grant, Robert	Lethbridge	10
Goldie, William	Lethbridge	24
Graham, Robert	Clover Bar	50
Gilday, Michael Edward	Drumheller	63
Heathcote, Joseph	Edmonton	32
Hutton, Hugh	Bellevue	60
Harmison, William	Mountain Park	41
Hargreaves, George	Lethbridge	65
Hynd, William	Elcan	52
James, John	Pocahontas	28
Jones, David	Taber	55
Kenyon, William	Mountain Park	44
Lynch, Stewart	Canmore	26
Loxton, John	Fernie, B. C.	51
Muir, Alexander	Hardieville	12
Miller, Joseph	Stafford Village	14
Muir, Robert	Bankhead	21
Murray, David	Hillcrest	35
Mather, John	Bickerdike	45
Muir, James	Bankhead	57
Marsh, Ernest	Taber	61
Morgan, William John	Canmore	64
McDonald, Noble Moore	Bellevue	5
McGowan, James Kerr	North Lethbridge	13
Nicol, George	Pocahontas	27
Park, Alex. C.	Lethbridge	25
Porteous, Alexander	Hillcrest	36
Purdy, Stearns, J.	Bellevue	37
Parker, Joseph	Drumheller	47
Puckett, Owen Lovejoy	Lovett	53
Rankin, William	Hosmer, B. C.	4
Rebar, Mike	Hardieville	19
Rees, Daniel	Bellevue	56
Russell, Arthur	Standard	59
Steele, John Willson	Lethbridge	17
Severns, Matthew	Strathcona	42
Spencer, Murray A.	Lovett	43
Snarey, George	Taber	62

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NAME	ADDRESS	NO. OF CERT.
Thomas, John Benjamin	Edmonton	46
Thomson, Andrew Roger	Lovett	66
Whitefield, Isaac	Coalhurst	15
Williams, John T.	Bellevue	33
Wesnedge, William	Nordegg	58

CROW'S NEST PASS DISTRICT.

MR. WILLIAM SHAW, DISTRICT INSPECTOR OF MINES, BLAIRMORE

Hillcrest Collieries, Limited.

Authorized Capital: \$3,000,000.00.
 President: C. B. Gordon.
 Vice-President: C. Meredith.
 Directors: C. B. Gordon, C. Meredith, C. P. Hill, H. S. Holt, J. M. Mackie, M. P. Davis, C. R. Hamilton, John Brown.
 Secretary-Treasurer: Frank J. Smith.
 Managing Director: J. M. Mackie.
 General Manager: John Brown.
 Mine Manager: R. T. Stewart.
 Overman: Sam Richards.
 Examiners: John Ironmonger, Wm. Adlam, Walter Rose, Robert Hays, Dan Briscoe.
 Engineer: William Hutchison.
 Master Mechanic: Thomas Hargreaves.
 Head Office: 112 St. James Street, Montreal, Quebec.
 Mine Office: Hillcrest, Alta.
 Location of Mine: N. E. $\frac{1}{4}$ Sec. 18, Tp. 7, Rge. 3, W. 5th M.
 Area: 3,760 acres.

One seam which is 14 ft. in thickness is being operated at this mine. There have been no improvements of any importance made during the year.

Franco-Canadian Collieries, Limited.

Authorized Capital: \$1,300,000.00.
 President: Viscount P. de Chezelles.
 Directors: Viscount P. de Chezelles, George Cahen, Georges Berthier, Jean Saint Girons, Aubin Ollier, Raymond Perry, Leon Motte, Harry C. Moore, J. M. Windsor and Henri Luthard.
 Secretary: C. J. Tompkins.
 Managing Director: Georges Cahen.
 Mine Manager: John R. McDonald.
 Overman: Edward Bridge.
 Examiners: James Reid, Isaac Hutton, S. Dixon.
 Engineer: G. A. Lavoie.
 Master Mechanic: Robt. Niven.
 Head Office: Frank, Alta.
 Mine Office: Frank, Alta.
 Location of Shaft Mine: Sec. 36, Tp. 7, Rge. 4, W. 5th M.
 Area: 2,680 Acres.
 Method of Ventilation: Forcing and exhausting fans.

Old Mine.

Overman: James Nicol.

Examiners: Fred. Rayner, J. H. Robinson, Thomas Davie.

Location of Old Mine: Sec. 30, Tp. 7, Rge. 3, W. 5th M.

Two seams are being operated by this company which are 14 ft. thick and 8 ft. thick respectively. There have been no improvements of any importance during the past year.

Marlow Brothers.

Location of Mine: Sec. 26/35, Tp. 7, Rge. 2, W. 5th M.

Area: 320 acres.

Method of Ventilation: Natural.

The seam which is being operated at this mine is about 10 ft. in thickness and is pitching at an inclination of about 60 degrees. A tippie capable of handling about 100 tons per day has been erected during the year.

*West Canadian Collieries, Limited.**Bellevue Mine.*

Authorized Capital: \$5,600,000.00.

President: A. Wicart.

Vice-President: E. Ory.

Directors: A. Wicart, E. Ory, E. Decoste, E. Carlier, Baron de la Grange O'Tard, Jean Carvois, J. R. Tennant, H. Maitland Kersey, E. Rasson.

Secretary-Treasurer: A. Ghesquier.

General Manager: J. Charbonnier.

Mine Manager: W. P. Williams.

Overmen: David Davidson, Wm. G. Pearson.

Examiners: W. McVey, Dave Hutton, John Jackson, H. S. McDonald, Jas. Radford, Donald McMillan, Edward Coupland, Ebenezer Roberts, Joe Stephenson, Dan Picton, J. J. Thomas, Michael Joyce.

Engineers: Arthur E. Williams and Allan Hamilton.

Master Mechanic: Eugene Large.

Head Office: 119 London Wall, London, E. C., England.

Mine Office: Bellevue, Alta.

Location of Mine: N. E. $\frac{1}{4}$ Sec. 20, Tp. 7, Rge. 3, W. 5th M.

Area: 1,800 acres.

Method of Ventilation: Exhausting fan.

The seam operated at this mine is 14 ft. in thickness and is pitching at an inclination of 35 degrees. A fan of the Sullivan type has been installed at chute No. 125; this fan is 8 ft. in diameter and is electrically driven. Two compressed air locomotives have been added to the equipment. A lamp-house 25 ft. by 17 ft. constructed of brick and a wash-house accommodating 100 lockers have also been erected. New electrical machinery has also been installed.

Blairmore Mine.

Mine Manager: Raoul Green.

Mine Office: Blairmore.

Location of Mine: Sec. 35, Tp. 7, Rge. 4, W. 5th M.

Area: 2,240 acres.

The thickness of the seam operated at this mine is 4 ft. 6 in. and is pitching at an inclination of 40 degrees. There have been no improvements made, the mine only working a few months in the early part of the year.

Greenhill Mine.

Mine Manager: Raoul Green.
 Overman: O. Morgan.
 Examiners: D. Kemp, J. Garrett.
 Engineer: L. P. Robert.
 Master Mechanic: J. McPhail.
 Mine Office: Blairmore, Alta.
 Location of Mine: Sec. 2, Tp. 8, Rge. 4, W. 5th M.
 Area: 2,880 acres.
 Method of Ventilation: Natural.

The seam being operated at this mine varies in thickness from 10 to 16 ft. and is pitching at an inclination of 40 degrees. A tippie and screening plant have been erected and development work underground is being pushed ahead.

The International Coal & Coke Company, Limited.

Authorized Capital: \$3,000,000.00.
 President: Wm. Farwell.
 Vice-President: Hugh Davidson.
 Directors: Wm. Farwell, H. Davidson, Frank H. Graves, B. H. Kizer, W. G. Graves.
 Secretary: W. G. Graves.
 Treasurer: John McKeagan.
 Managing Director: R. W. Riddell.
 General Manager: O. E. S. Whiteside.
 Mine Manager: W. A. Davidson.
 Overman: David Davies.
 Examiners: M. Morrison, Wm. Allen, John Cox.
 Master Mechanic: James Scott.
 Head Office: Spokane, Wash., U.S.A.
 Mine Office: Coleman, Alta.
 Location of Mine: Sec. 8, Tp. 8, Rge. 4, W. 5th M.
 Area: 4,410 acres.
 Method of Ventilation: Exhausting fans.

Two seams are being operated at this mine, one 15 ft. and the other 6 ft. in thickness, having an average inclination of 33 degrees.

A slope has been sunk and double track laid with 60 lb. rails. This slope is worked by means of a 700 h.p. electrical hoist. A 750 h.p. Turbo alternator and a 250 k.w. Rotary Converter have been installed.

The Leitch Collieries, Limited.

Authorized Capital: \$1,000,000.00.
 President: Malcolm Leitch.
 Vice-President: G. O. Oulsebrook.
 Directors: F. C. Baker, J. C. Drewry, A. W. Fraser, D. E. Williams, A. K. Leitch, J. D. McBride, W. G. McMahon, J. G. Turriff and R. G. Plews.
 Secretary: J. B. Smith.
 General Manager: W. L. Hamilton.
 Mine Manager: J. D. Thomas.
 Engineers: W. C. Holmes, F. Gillis, H. Parsons, W. Evans, J. Walker.
 Head Office: 203-5 McIntyre Building, Winnipeg, Man.
 Mine Office: Passburg, Alta.
 Location of Mine: Sec. 15, Tp. 7, Rge. 3, W. 5th M.
 Area: Approximately 12,500 acres.
 Method of Ventilation: Forcing fan.

Two seams are being operated at this mine, one 6 ft. 6 ins. in thickness and the other 5 ft. in thickness. These seams are pitching at an inclination of 60 degrees. A slope has been sunk in No. 2 seam for a distance of 100 ft. on a 25 per cent. grade.

Maple Leaf Coal Company.

Authorized Capital: \$500,000.00.
 President: D. M. Drumheller.
 Vice-President: A. Kuhn.
 Directors: A. Coolidge, M. Oppenheimer, C. P. Lund.
 Secretary-Treasurer: Chas. P. Lund.
 General Manager: Jas. Finlay.
 Mine Manager: Jas. McCulloch.
 Examiners: John McGladrie, Wm. Park.
 Engineer: Wm. Burrows.
 Master Mechanic: George Hope.
 Head Office: Spokane, Wash., U.S.A.
 Mine Office: Bellevue, Alta.
 Location of Mine: N. W. $\frac{1}{4}$ Sec. 21, Tp. 7, Rge. 3, W. 5th M.
 Area: 640 acres.
 Method of Ventilation: Forcing fan.

One seam 8 ft. in thickness is being operated at this mine. No improvements of any importance have been made during the year.

Davenport Coal Company.

Authorized Capital: \$500,000.00.
 Vice-President: W. Clayton Miller.
 Directors: W. Clayton Miller, John A. Finch, Charles Hussey, Chas. P. Lund and Wm. A. Cory.
 Secretary-Treasurer: Chas. Hussey.
 General Manager: J. Dougall.
 Overman: G. Coupland.
 Master Mechanic: Simon McDonald.
 Head Office: 507 Empire State Building, Spokane, Wash., U.S.A.
 Mine Office: Burmis, Alta.
 Location of Mine: Sec. 14, Tp. 7, Rge. 3, W. 5th M.
 Area: 482 acres.
 Method of Ventilation: Forcing fan.

Two seams are being operated at this mine, one 4 ft. 6 ins. in thickness and the other 5 ft. 6 ins. in thickness. These seams are pitching at an inclination of 33 degrees. No improvements of any importance have been made during the year.

Canadian Coal & Coke Company, Limited.
Beaver Mines.

Authorized Capital: \$15,000,000.00.
 President: H. A. Lovett, K.C.
 Vice-President: Hon. Robt. MacKay.
 Directors: Hon. N. Curry, H. A. Lovett, K.C., Hon. W. B. Ross, Hon. Robt. MacKay, J. W. McConnell, R. M. Ballantyne, O. W. Donner, A. H. Cook, K.C., J. T. Ross, H. B. Robinson and T. H. Saunders.
 Secretary: P. F. Brown.
 Treasurer: Samuel T. Mains.
 General Manager: P. O. Dwyer.
 Mine Manager: Samuel McVicar.
 Overman: David Muir.
 Examiners: T. O. Davis, J. P. Prentice, J. Crawford.
 Engineer: N. C. Pitcher.

Master Mechanic: J. M. Marshall.
 Head Office: 1021 Transportation Building, Montreal, Que.
 Mine Office: Beaver Mines, Alta.
 Location of Mine: Sec. 10, Tp. 6, Rge. 2, W. 5th M.
 Area: 6,882 acres.
 Method of Ventilation: Forcing fan.

One seam which is 7 ft. in thickness is being operated at this mine. This seam is pitching at an inclination of 30 degrees. No improvements of any importance have been made during the year.

McGillivray Creek Coal & Coke Company, Limited.

Authorized Capital: \$3,000,000.00.
 President: Lorne A. Campbell.
 Vice-President: James A. Nowell.
 Directors: Lorne A. Campbell, Jas. A. Nowell, T. M. Paine, Fitzhugh Burns, W. E. Cullen, Jr.
 Secretary-Treasurer: W. E. Cullen, Jr.
 Managing Director: Lorne A. Campbell.
 Mine Manager: George Kellock.
 Overmen: A. B. Hunter, Thos. Parry.
 Examiners: H. Gate, A. Scott, H. C. Harries, J. O. C. Macdonald.
 Engineer: A. G. MacAuley.
 Master Mechanic: Herdman McLeod.
 Head Office: Rossland, B. C.
 Mine Office: Coleman, Alta.
 Location of Mine: Sec. 17, Tp. 8, Rge. 4, W. 5th M.
 Area: 1,950 acres.
 Method of Ventilation: Forcing fan.

The seam being operated at this mine is 9 ft. in thickness and is pitching at an inclination of 30 degrees. The haulage is done by means of two 6 ton storage battery locomotives. A Sirocco fan having a capacity of 200,000 cubic feet of air per minute with a water gauge of 2½ inches has been installed, also one single stage high lift turbine pump capable of delivering 600 gallons per minute against a head of 200 ft.

J. H. Owen.

Location of Mine: S. E. ¼ Sec. 11, Tp. 5, Rge. 1, W. 5th M.
 Area: 160 acres.
 Method of Ventilation: Natural.

The average thickness of the seam which is being operated at this mine is 12 feet and is pitching at an inclination of 32 degrees.

This mine is operating on a small scale and supplies local demand.

The Link Coal Company.

Location of Mine: Sec. 25, Tp. 5, Rge. 2, W. 5th M.
 Area: 1,000 acres.
 Method of Ventilation: Natural.

One seam which is 6 ft. in thickness and pitching at an inclination of 10 degrees is being operated at this mine on a small scale.

Herschel Kaye.

Location of Mine: N. E. $\frac{1}{4}$ Sec. 11, Tp. 10, Rge. 2, W. 5th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam being operated at this mine is 14 ft. in thickness and is pitching at an inclination of 60 degrees. The mine is operated on a small scale and supplies local demand only.

Thomas J. Sparrow.

Location of Mine: Sec. 17, Tp. 5, Rge. 1, W. 5th M.
Area: 160 acres.
Method of Ventilation: Natural.

The average thickness of the seam operated at this mine is 7 ft. and it is pitching at an inclination of 10 degrees. The mine is worked on a small scale, supplying local demand only.

Daniel Fitzpatrick.

Location of Mine: S. E. $\frac{1}{4}$ Sec. 3, Tp. 4, Rge. 28, W. 4th M.
Area: 60 acres.
Method of Ventilation: Natural.
Dip of Strata: 30 degrees.
Thickness of Seam: 3 ft.

Edmund James Brooks.

Location of Mine: E. $\frac{1}{2}$ L. S. 9, Sec. 13, Tp. 28, Rge. 4, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.
Dip of Strata: 40 degrees.
Average Thickness of Seam: 2 ft. 6 ins.

Bradley & Watson.

Location of Mine: Sec. 16, Tp. 6, Rge. 30, W. 4th M.
Area: 80 acres.
Method of Ventilation: Natural.
Average Thickness of Seam: 12 ft.
Dip of Strata: 85 degrees.

James Alexander Gilruth.

Location of Mine: N. $\frac{1}{2}$ L. S. 8, Sec. 27, Tp. 4, Rge. 28, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.
Average Thickness of Seam: 2 ft. 6 ins.
Dip of Strata: 30 degrees.

James Jeffrey.

Location of Mine: Sec. 32, Tp. 10, Rge. 2, W. 5th M.
Area:
Method of Ventilation: Natural.
Average Thickness of Seam: 3 ft.
Dip of Strata: 80 degrees.

Wilson Dennis.

Location of Mine: Sec. 31, Tp. 10, Rge. 2, W. 5th M.

Area:

Method of Ventilation: Natural.

Average Thickness of Seam: 3 ft.

Dip of Strata: 50 degrees.

The last six mines are operating on a small scale and supply local demand only.

LETHBRIDGE DISTRICT.

MR. SAMUEL A. JONES, DISTRICT INSPECTOR OF MINES, LETHBRIDGE.

Canadian Pacific Railway.

(*Department of Natural Resources.*)

President: Sir Thos. G. Shaughnessy.

Vice-President: D. McNicoll.

Directors: Richard B. Angus, Sir Sanford Fleming, Hon. Robt.

Mackay, A. M. Nanton, Sir Thos. Skinner, A. R. Creelman, K.C.,

Herbert S. Holt, W. D. Matthews, Sir Edmund B. Osler, Sir Wm. C.

Van Horne, Hon. Jas. Dunsmuir, Chas. R. Hosmer, David McNicoll,

Sir Thos. G. Shaughnessy.

Secretary: W. R. Baker.

Treasurer: H. E. Suckling.

Manager: P. L. Naismith.

General Superintendent: Lewis Stockett.

Mine Manager: Robt. Livingstone.

Head Office: Calgary, Alta.

Mine Office: Lethbridge, Alta.

Number 3 Mine.

Overmen: J. C. Livingstone and A. M. Queen.

Examiners: Robt. Scott, J. T. Parkes and W. D. McMillan.

Engineer: W. Kellett.

Master Mechanic: John Scott.

Location of Mine: Sec. 6, Tp. 9, Rge. 21, W. 4th M.

Area: Approximately 6,000 acres.

Method of Ventilation: Forcing fan.

Number 6 Mine.

Overmen: J. C. Livingstone and John Stevenson.

Examiners: E. Berford, Peter Ramsay, S. A. B. Crabb, David Coutts,

W. Crawford and James Moore.

Engineer: W. Kellett.

Master Mechanic: H. A. McMillan.

Location of Mine: Sec. 18, Tp. 9, Rge. 21, W. 4th M.

Area: Approximately 10,000 acres.

Method of Ventilation: Sirocco Forcing Fan.

This company is operating two mines near Lethbridge, the thickness of the seam at each mine being 4 ft. During the year a water tower with a capacity of 52,000 gallons has been erected along with several other buildings. No other improvements of any importance have been made.

James Ashcroft.

Location of Mine: S. W. $\frac{1}{4}$ Sec. 35, Tp. 8, Rge. 22, W. 4th M.
Area: 195 acres.
Method of Ventilation: Natural.

The seam operated at this mine is 4 ft. 6 ins. in thickness at a depth of 200 ft. from the surface.

John Rollingson.

Location of Mine: Secs. 17/18, Tp. 7, Rge. 21, W. 4th M.
Area: 1,300 acres.
Method of Ventilation: Natural.

The seam operated at this mine is 3 ft. 4 ins. in thickness at a depth of 90 feet from the surface. This mine is operated on a very small scale and has no railway connections.

Thomas H. Baker.

Location of Mine: Sec. 6, Tp. 7, Rge. 21, W. 4th M.
Area: 52 acres.
Method of Ventilation: Natural.

The seam operated at this mine is 4 ft. in thickness at a depth of 100 ft. from the surface. No improvements have been made during the year.

Regal Collieries, Limited.

Authorized Capital: \$500,000.00.
President: W. A. Aubin.
Vice-President: Roy Bullock.
Directors: W. A. Aubin, Roy Bullock and W. E. Bullock.
Secretary: W. E. Bullock.
Treasurer: W. E. Bullock.
Managing Director: W. E. Bullock.
General Manager: Roy Bullock.
Mine Manager: John Marsh.
Engineer: Stephen Turner.
Head Office: Taber, Alta.
Mine Office: Taber, Alta.
Location of Mine: Sec. 8, Tp. 10, Rge. 16, W. 4th M.
Area: 640 acres.
Method of Ventilation: Exhausting fan.

The seam operated at this mine is 4 ft. in thickness at a depth of 95 ft. from the surface and is mined on the room and pillar system. There have been no improvements made during the year.

The Canada West Coal Company, Limited.

Authorized Capital: \$2,400,000.00.
President: O. A. Robertson.
Vice-President: S. H. Bowman.
Directors: P. M. Starnes, F. E. Kenaston, O. A. Robertson and S. H. Bowman.
Secretary-Treasurer: J. R. Howard.
General Manager: J. R. Howard.
Mine Manager: Moses Johnson.
Overman: Wm. Jordan.

Examiners: Thos. Young, D. Jones and J. W. Byers.

Engineer: E. S. F. Huntrods.

Master Mechanic: Wm. McMahon.

Head Office: Taber, Alta.

Mine Office: Taber, Alta.

Location of Mine: Sec. 31, Tp. 9, Rge. 16, W. 4th M.

Area: 11,200 acres.

Method of Ventilation: Forcing fan.

The thickness of the seam operated at this mine is 3 ft. 8 ins. at a depth of 93 ft. from the surface.

An air shaft 6 ft. by 6 ft. has been sunk and a Sturtevant fan, electrically driven installed underground near the bottom of the shaft. An electrically driven pump has also been installed, also one 5 ton electric trolley locomotive and an electric hoist. The plant has been improved by the installation of an electrically driven picking belt and an Ottumwa Box Car Loader.

The mine is operated by means of a slope 8 ft. high by 14 ft. wide by 325 ft. long at an inclination of 18 degrees.

The main entries are 8 ft. wide by 7 ft. 6 ins. high and rooms are driven 18 ft. wide. The capacity of the plant is 1,200 tons per day of eight hours.

White Ash Collieries, Limited.

Authorized Capital: \$300,000.00.

President: W. E. Bullock.

Vice-President: Roy Bullock.

Directors: W. E. Bullock, Roy Bullock, Clara Bullock.

Secretary-Treasurer: Clara Bullock.

Managing Director: W. E. Bullock.

General Manager: W. E. Bullock.

Mine Manager: John Marsh.

Engineer: Walter Duncumbe.

Head Office: Taber, Alta.

Mine Office: Taber, Alta.

Location of Mine: Sec. 1, Tp. 10, Rge. 17, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

Seam operated at this mine is 4 ft. in thickness at a depth of 90 ft. from the surface. The entries are driven 8 ft. wide by 5 ft. high; rooms 18 ft. wide by 4 ft. high and pillars 10 ft. wide by 150 ft. long. No improvements have been made during the year.

John Doram.

Location of Mine: Sec. 4, Tp. 10, Rge. 17, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

The seam at this mine is 3 ft. in thickness at a depth of 60 ft. from the surface. This mine is operating on a small scale and no improvements have been made during the year.

Canadian Pacific Railway. (Taber)

Location of Mine: Sec. 7, Tp. 10, Rge. 16, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

The seam at this mine is 3 ft. 6 ins. in thickness at a depth of 60 ft. from the surface. It is operated for the purpose of supplying fuel for the Canadian Pacific Railway pumping station near Taber.

Elias Kyllingstad.

Location of Mine: Sec. 36, Tp. 14, Rge. 22, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 2 ft. 10 ins. at a depth of 150 ft. from the surface. No improvements have been made during the year.

Henry Therriault.

Location of Mine: Sec. 8, Tp. 15, Rge. 22, W. 4th M.
Area: 640 acres.
Method of Ventilation: Natural.

The seam is 2 ft. 6 ins. in thickness at a depth of 80 ft. from the surface and is worked on the room and pillar method.

William James Greenaway.

Location of Mine: Sec. 4, Tp. 16, Rge. 21, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The seam is 2 ft. thick at a depth from the surface of 100 ft. and is mined on the room and pillar system. A new gangway has been driven in a distance of about 25 ft.

John William Brown.

Location of Mine: Sec. 24, Tp. 16, Rge. 23, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The seam at this mine is 2 ft. 2 ins. in thickness at a depth of 60 ft. from the surface. The mine is worked on a small scale, no improvements being made during the year.

William Jaynes.

Location of Mine: Secs. 1 and 2, Tp. 7, Rge. 22, W. 4th M.
Area: 203 acres.
Method of Ventilation: Natural.

The seam is 3 ft. in thickness at a depth of 65 ft. from the surface.

Rock Springs Coal & Brick Company, Limited.

Authorized Capital: \$500,000.00.
President: B. K. Bullock.
Vice-President: Wm. Henderson.
Directors: B. K. Bullock, W. Henderson, A. L. Bullock and C. Clark.
Secretary-Treasurer: A. L. Bullock.

General Manager: B. K. Bullock.
 Mine Manager: Robt. J. Lee.
 Examiner: Wm. Hynds.
 Engineer: Herbert Lamb.
 Head Office: Taber, Alta.
 Mine Office: Elcan, Alta.
 Location of Mine, Sec. 3, Tp. 10, Rge. 17, W. 4th M.
 Area: 480 acres.
 Method of Ventilation: Exhaust fan.

The average thickness of the seam at this mine is 3 ft. at a depth of 70 ft. from the surface. An endless rope haulage system 1,200 ft. in length operated by a 20 h. p. engine has been installed during the year, also electrical machinery for lighting purposes.

Canadian Coal & Coke Company, Limited.
(Lethbridge Colliery)

President: H. A. Lovett, K.C.
 Vice-President: Hon. Robt. Mackay.
 Directors: Hon. N. Curry, H. A. Lovett, K.C., Hon. W. B. Ross, Hon. R. Mackay, J. W. McConnell, R. M. Ballantyne, O. W. Donner, A. H. Cook, K.C., J. T. Ross, H. B. Robinson, T. H. Saunders.
 Secretary: P. F. Brown.
 Treasurer: Samuel T. Mains.
 General Manager: P. O. Dwyer.
 Mine Manager: Wm. Maxwell.
 Overman: John D. Keith.
 Examiners: N. McDonald, R. Heap, J. Bainbridge, P. Melling, J. Whitefield, Jas. Hill, Thos. Adams, H. Evans, P. Hutchison.
 Chief Engineer: N. C. Pitcher.
 Master Mechanic: Robert Brown.
 Head Office: 1021 Transportation Building, Montreal, Que.
 Mine Office: Coalhurst, Alta.
 Location of Mine: Sec. 21, Tp. 9, Rge. 22, W. 4th M.
 Area: 9,360 acres.
 Method of Ventilation: Forcing fan.

The following improvements have been made during the year: Machine shop, 90 ft. by 28 ft.; addition to wash-house, 21 ft. by 22 ft., equipped with 110 additional lockers and eight shower baths; two 500 h. p. B. & W. boilers; one vertical air compressor, 2,000 ft. capacity and 150 new mine cars; an endless rope haulage system electrically driven has also been installed underground.

The seam at this mine is 4 ft. 4 ins. in thickness at a depth of 574 ft. from the surface.

Evan Thomas Davis.

Location of Mine: Sec. 31, Tp. 2, Rge. 15, W. 4th M.
 Area: 320 acres.
 Method of Ventilation: Natural.

The seam at this mine is 4 ft. 6 ins. in thickness at a depth of 100 ft. from the surface, worked on the double room method.

Jonathan James Mills.

Location of Mine: Sec. 23, Tp. 9, Rge. 13, W. 4th M.
 Area: 200 acres.
 Method of Ventilation: Natural.

The seam at this mine is 4 ft. 4 ins. in thickness at a depth of 30 ft. from the surface, mined on the room and pillar method. A new opening has been commenced and a shaft 4 ft. square has been sunk to a depth of 20 ft.

Consolidated Monarch Collieries, Limited.

Location of Mine: Sec. 12, Tp. 10, Rge. 17, W. 4th M.
Method of Ventilation: Natural.

The average thickness of the seam at this mine is 3 ft. 3 ins. at a depth from the surface of 70 ft. No improvements were made during the year.

David H. Long.

Location of Mine: Sec. 36, Tp. 11, Rge. 11, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam at this mine is 2 ft. 2 ins. in thickness at a depth of 150 ft. from the surface, worked on the room and pillar system. No improvements have been made during the year.

City of Lethbridge.

Location of Mine: N. E. $\frac{1}{4}$ Sec. 36, Tp. 8, Rge. 22, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 4 ft. at a depth of 200 ft. from the surface.

Watkin E. Watkins.

Location of Mine: Sec. 9, Tp. 16, Rge. 23, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 3 ft. 6 ins. at a depth of 60 ft. from the surface.

Golden West Coal Mining Company, Limited.

Authorized Capital: \$50,000.00.
President: E. S. Bowden.
Vice-President: G. Ridley.
Directors: E. S. Bowden, A. L. Bowden, G. Ridley.
Secretary-Treasurer: A. L. Bowden.
General Manager: E. S. Bowden.
Mine Manager: H. C. Black.
Head Office: Taber, Alta.
Mine Office: Taber, Alta.
Location of Mine: Sec. 18, Tp. 10, Rge. 16, W. 4th M.
Area: 80 acres.
Method of Ventilation: Natural.

The average thickness of the seam at this mine is 4 ft. at a depth of 80 ft. from the surface. The coal is mined on the room and pillar method. Main entries are driven 6 ft. by 6 ft.; rooms, 16 ft. wide by 4 ft. high and pillars 9 ft. wide by 100 ft. long.

No improvements have been made during the year.

New Barnes Coal Mine Company.

Location of Mine: Sec. 31, Tp. 9, Rge. 21, W. 4th M.
Area: 60 acres.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. in thickness at a depth of 250 ft. from the surface. No improvements have been made during the year.

Samuel Ervine.

Location of Mine: Sec. 9, Tp. 10, Rge. 13, W. 4th M.
Area: 320 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 3 ft. at a depth of 51 ft. from the surface. An air shaft 4 ft. square is sunk to the coal. No improvements have been made during the year.

Ellis Brothers.

Location of Mine: Sec. 8, Tp. 16, Rge. 23, W. 4th M.
Area: 160 acres.
Method of Ventilation: Natural.

The average thickness of the seam at this mine is 3 ft. 6 ins. at a depth of 60 ft. from the surface. Main entries are driven 6 ft. wide by 6 ft. high; rooms, 16 ft. wide by 4 ft. high and pillars 40 ft. wide by 275 ft. long. The mine is worked on a very small scale and no improvements were made during the year.

Henderson Brothers.

Location of Mine: Sec. 29, Tp. 16, Rge. 21, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

During the year a small wooden tibble has been erected. The coal is mined on the room and pillar system, the seam being 2 ft. 3 ins. in thickness at a depth of 100 ft. from the surface.

Superior Coal Company Limited.

Authorized Capital: \$1,500,000.
President: B. K. Bullock.
Vice-President: R. McAllister.
Directors: B. K. Bullock, C. L. Parker, H. Y. Parker, R. McAllister and I. Parkes.
Secretary: C. C. Cook.
Treasurer: C. L. Parker.
General Manager: H. Y. Parker.
Overman: R. McAllister.
Engineer: R. D. Stokes.
Head Office: Taber, Alta.
Mine Office: Taber, Alta.
Location of Mine: Sec. 18, Tp. 10, Rge. 16, W. 4th M.
Area: 5,009 acres.
Method of Ventilation: Natural.

During the year a wooden tibble has been erected equipped with an automatic weigh scales. An airway 4 ft. by 6 ft. by 100 ft. has

been sunk at an angle of 45 degrees, and a powder magazine installed. One 20 h. p. boiler and 30 mine cars have been added to the equipment.

The thickness of the seam is 4 ft. and is at a depth of 70 ft. from the surface.

Chinook Coal Company, Limited.

Authorized Capital: \$3,000,000.00.
President: Wm. A. Wood.
Vice-President: Miller Lash.
Directors: Wm. A. Wood, Miller Lash, C. R. Somerville, Robt. Cassels,
Cyrus Birge, C. Cook and H. A. McCallum.
Secretary: W. de B. Daly.
Treasurer: W. de B. Daly.
General Manager: J. C. Reid.
Mine Manager: A. H. Reid.
Overman: Peter Jones.
Examiners: John Ferguson, J. W. Steel, John Murray.
Engineer: C. C. Richards.
Master Mechanic: O. Higgins.
Head Office: Lethbridge, Alta.
Mine Office: Commerce, Alta.
Location of Mine: Sec. 12, Tp. 10, Rge. 22, W. 4th M.
Area: 8,300 acres.
Method of Ventilation: Sullivan, steam driven reversible fan.

The following improvements have been made at this mine during the year: Brick lamp-house, 20 ft. by 36 ft. and a picking table 50 ft. in length.

The main entries are driven 8 ft. wide by 5 ft. 6 ins. high; rooms 16 ft. wide and pillars 18 ft. wide by 150 ft. long. The capacity of the plant is 1,000 tons per day of eight hours.

The average thickness of the seam is 4 ft. 2 ins. at a depth from the surface of 440 ft.

George Heighes.

Location of Mine: Sec. 27, Tp. 10, Rge. 21, W. 4th M.
Area: 80 acres.
Method of Ventilation: Natural.

The coal at this mine is worked on the room and pillar method, the thickness of the seam being 3 ft. at a depth of 125 ft. from the surface. No improvements have been made during the year.

Staveley Coal Mining Company.

Location of Mine: Sec. 29, Tp. 14, Rge. 21, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 3 ft. 6 ins. at a depth of 200 ft. from the surface.

Carl E. Hollander.

Location of Mine: Sec. 26, Tp. 2, Rge. 16, W. 4th M.
Area: 320 acres.
Method of Ventilation: Natural.

During the year a shed, 14 ft. by 96 ft. has been erected for the storage of coal. The average thickness of the seam is 2 ft. 6 ins. at a depth of 80 ft. from the surface.

John S. Hutchison.

Location of Mine: S. E. $\frac{1}{4}$ Sec. 15, Tp. 11, Rge. 9, W. 4th M.
 Area: 20 acres.
 Method of Ventilation: Natural.

The average thickness of the seam at this mine is 2 ft. 8 ins. at a depth of 40 ft. from the surface.

Duncan Kippen.

Location of Mine: L. S. D. 5, Sec. 35, Tp. 2, Rge. 12, W. 4th M.
 Area: 20 acres.
 Method of Ventilation: Natural.

This mine is worked on a very small scale, the coal being mined by stripping off the surface. The average thickness of the seam is 3 ft.

Daniel G. McKay.

Location of Mine: Sec. 1, Tp. 3, Rge. 16, W. 4th M.
 Area: 20 acres.
 Method of Ventilation: Natural.

The improvements made during the year are a new opening and a new air shaft. The seam at this mine is 2 ft. 6 ins. thick at a depth of 80 ft. from the surface.

William Ellis.

Location of Mine: Sec. 5, Tp. 16, Rge. 23, W. 4th M.
 Area: 160 acres.
 Method of Ventilation: Natural.

The seam at this mine is 3 ft. 6 ins. in thickness at a depth of 60 ft. from the surface.

Henry B. Hughson.

Location of Mine: Sec. 10, Tp. 3, Rge. 11, W. 4th M.
 Area: 90 acres.
 Method of Ventilation: Natural.

The seam at this mine is 3 ft. 6 ins. in thickness at a depth of 90 ft. from the surface.

Cardston Coal & Coke Company, Limited.

Authorized Capital: \$150,000.00.
 President: Reginald E. McArthur.
 Directors: R. E. McArthur, A. Smith, H. M. Widdington, John Brodie
 and Jeremiah Leavitt.
 Secretary: R. W. Gardner.
 Managing Director: R. E. McArthur.
 Overman: Benjamin Street.

Head Office: Lethbridge, Alta.
Mine Office: Cardston, Alta.
Location of Mine: Sec. 26, Tp. 2, Rge. 26, 4th M.
Area: 320 acres.
Method of Ventilation: Natural.

The seam at this mine is 8 ft. in thickness. No improvements have been made during the year.

Arthur Morgan.

Location of Mine: Sec. 14, Tp. 9, Rge. 11, W. 4th M.
Area: 20 acres.
Method of Ventilation:

The thickness of the seam at this mine is 2 ft. 4 ins. at a depth of 40 ft. from the surface.

Jules Lavenne.

Location of Mine: S. W. $\frac{1}{4}$ Sec. 22, Tp. 12, Rge. 10, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The average thickness of the seam at this mine is 4 ft. 5 ins. at a depth of 125 ft. from the surface. No improvements have been made during the year.

Frank Kovaice.

Location of Mine: S. W. $\frac{1}{4}$ Sec. 9, Tp. 8, Rge. 8, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 2 ft. 6 ins. at a depth of 150 ft. from the surface.

Ferdinand Friedenberg.

Location of Mine: Sec. 5, Tp. 8, Rge. 8, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

This mine is operated on a very small scale. The thickness of the seam is 2 ft. 6 ins. at a depth of 150 ft. from the surface.

James C. Foote.

Location of Mine: Sec. 7, Tp. 9, Rge. 8, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 2 ft. 3 ins. at a depth of 60 ft. from the surface.

Elsworth Raber.

Location of Mine: Sec. 22, Tp. 12, Rge. 10, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 4 ft. 3 ins. at a depth of 200 ft. from the surface. The mine is operated on a very small scale.

Charles F. Henry.

Location of Mine: Sec. 6, Tp. 8, Rge. 10, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam at this mine is 3 ft. in thickness at a depth of 20 ft. from the surface.

William Roberts.

Location of Mine: Sec. 36, Tp. 6, Rge. 12, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

This mine is operated by a drift 6 ft. high by 6 ft. wide, the thickness of the seam being 2 ft. 2 ins. at a depth of 100 ft. from the surface.

William H. Simanton.

Location of Mine: Sec. 22, Tp. 12, Rge. 10, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. 6 ins. in thickness at a depth of 200 ft. from the surface.

Dr. J. H. Duncan.

Location of Mine: Sec. 4, Tp. 2, Rge. 6, W. 4th M.
Area: 80 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 4 ft. at a depth of 200 ft. from the surface.

Stephen Schmidt.

Location of Mine: Sec. 30, Tp. 7, Rge. 8, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 2 ft. 6 ins. at a depth of 150 ft. from the surface.

Bathurst Mining Company, Limited.

Authorized Capital: \$20,000.00.
President: A. W. Cooley.
Vice-President: O. T. Lattrop.
Directors: A. W. Cooley, E. A. Storman, O. T. Lattrop and J. C. McKillop.
Secretary-Treasurer: E. A. Storman.
Engineer: H. Timm.
Head Office: Lethbridge, Alta.
Mine Office: Diamond City, Alta.

Location of Mine: Sec. 5, Tp. 10, Rge. 21, W. 4th M.
Area: 158 acres.
Method of Ventilation: Natural.

The thickness of the seam at this mine is 4 ft. 2 ins. at a depth of 250 ft. from the surface. Only prospect work has been done during the year.

Mark Hancock.

Location of Mine: Sec. 25, Tp. 9, Rge. 13, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

During the year an air shaft 30 ft. deep has been sunk. The thickness of the seam is 4 ft. 4 ins. at a depth of 75 ft. from the surface.

Arthur Bembridge.

Location of Mine: L. S. D. 13, Sec. 6, Tp. 3, Rge. 11, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The only improvement made during the year is the sinking of a new air shaft. The seam at this mine is 2 ft. 8 ins. at a depth of 60 ft. from the surface.

William S. Abel.

Location of Mine: Sec. 1, Tp. 3, Rge. 12, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. in thickness at a depth of 75 ft. from the surface.

Jean Bilteryst.

Location of Mine: Sec. 19, Tp. 10, Rge. 16, W. 4th M.
Area: 380 acres.
Method of Ventilation: Natural.

No improvements have been made during the year with the exception of four miles of railway grading.

The seam at this mine is 3 ft. 6 ins. in thickness at a depth of 80 ft. from the surface, worked on the Long Wall system. Main entries are driven 7 ft. wide by 6 ft. high; side entries 6 ft. wide by 4 ft. high.

Michael Molloy.

Location of Mine: Sec. 27, Tp. 10, Rge. 21, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

During the year a new opening with incline on the surface with wooden tippie and a 12½ h. p. gasoline hoisting engine have been added. The coal is mined on the room and pillar system, the seam being 3 ft. 2 ins. in thickness at a depth of 200 ft. from the surface.

Mike Koffler.

Location of Mine: Sec. 13, Tp. 7, Rge. 5, W. 4th M.
Area: 20 acres.

The coal at this mine is worked by the stripping process, the seam being 2 ft. 6 ins. in thickness at a depth of 30 ft. from the surface.

Robert A. Salisbury.

Location of Mine: S. E. $\frac{1}{4}$ Sec. 26, Tp. 12, Rge. 10, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. in thickness at a depth of 200 ft. from the surface.

William Black.

Location of Mine: Sec. 10, Tp. 3, Rge. 11, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam at this mine is 3 ft. 6 ins. in thickness at a depth of 90 ft. from the surface. Very little work was done at this mine during the year 1914.

William H. McIntyre.

Location of Mine: S. $\frac{1}{2}$ Sec. 24, Tp. 3, Rge. 22, W. 4th M.
Area: 200 acres.
Method of Ventilation: Natural.

During the year a coal bunker with a capacity of 65 tons has been erected. The seam is 3 ft. 6 ins. in thickness at a depth of 70 ft.

Robert Jaynes.

Location of Mine: Sec. 29, Tp. 2, Rge. 15, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. 3 ins. in thickness at a depth of 30 ft. from the surface.

John H. Wall.

Location of Mine: L. S. D., Sec. 17, Tp. 7, Rge. 21, W. 4th M.
Area: 10 acres.
Method of Ventilation: Natural.

During the year a new air shaft has been sunk. The seam is 3 ft. in thickness at a depth of 100 ft. from the surface.

Samuel Pyrah.

Location of Mine: Sec. 8, Tp. 8, Rge. 21, W. 4th M.
Method of Ventilation: Natural.

No improvements have been made during the year and very little work has been done. The seam is 3 ft. 6 ins. in thickness at a depth of 100 ft. from the surface.

Page & Dayton.

Location of Mine: Sec. 29, Tp. 4, Rge. 20, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

The seam at this mine is 3 ft. in thickness at a depth of 65 ft. from the surface.

Daniel T. Sheets.

Location of Mine: Sec. 10, Tp. 3, Rge. 11, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

During the year a new air shaft has been sunk and a small dwelling house erected. The average thickness of the seam at this mine is 4 ft. at a depth of 90 ft. from the surface.

James Ashmore.

Location of Mine: Sec. 24, Tp. 16, Rge. 22, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

Only prospecting work has been done at this mine during the year. The seam is 3 ft. in thickness at a depth of 70 ft. from the surface.

Excelsior Coal Company.

Location of Mine: S. E. $\frac{1}{4}$ Sec. 4, Tp. 10, Rge. 17, W. 4th M.

Area: 14 acres.

Method of Ventilation: Natural.

During the year a wooden tippie has been erected, also a blacksmith's shop equipped with forge. An air shaft 4 ft. by 6 ft. has also been sunk.

The thickness of the seam at this mine is 3 ft. at a depth of 60 ft. from the surface, mined by the long wall method.

E. F. Bye.

Location of Mine: L. S. D. 16, Sec. 16, Tp. 3, Rge. 12, W. 4th M.

Area: 20 acres.

The seam at this mine is 2 ft. in thickness at a depth of 25 ft. from the surface and is mined by stripping off the surface. No improvements have been made during the year.

William H. Hodson.

Location of Mine: Sec. 3, Tp. 18, Rge. 21, W. 4th M.

Method of Ventilation: Natural.

This mine is worked on a very small scale, the only work done at present being in the way of prospecting.

Walter Wallwork.

Location of Mine: Sec. 36, Tp. 11, Rge. 11, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

The seam at this mine is 2 ft. 2 ins. in thickness at a depth of 150 ft. from the surface.

A small wooden tippie has been erected during the year, also a small storehouse for the coal.

Thomas Ernest Simpson.

Location of Mine: Sec. 9, Tp. 4, Rge. 16, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

Only prospecting work has been done at this mine during the year; the seam of coal, which is 4 ft. thick, lies at a depth of 75 ft. from the surface.

Thomas Eddie Smith.

Location of Mine: Sec. 28, Tp. 15, Rge. 21, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

Only prospecting work has been done at this mine; the seam of coal, which is 3 ft. in thickness, lies at a depth of 90 ft. from the surface.

CALGARY DISTRICT.

MR. JAMES A. RICHARDS, DISTRICT INSPECTOR OF MINES, CALGARY.

The Canmore Coal Company, Limited.

Authorized Capital: \$50,000.00.

President: James B. Neale.

Vice-President: Frederick D. Weyerhaeuser.

Directors: James B. Neale, F. E. Weyerhaeuser, Orrin H. Ingram, S.

Brinckerhoff Thorne, Joseph G. Thorp.

Secretary: Edmund M. Parker.

Treasurer: S. Brinckerhoff Thorne.

General Manager: J. J. Morris.

Mine Manager: Wm. Musgrove.

Overmen: A. S. Wright, James Clyne.

Examiners: Roland Archer, Jos. Sandino, Mikel Bovio, Robert Kerr,

Wm. Hughes, Charles Fowers, Geo. Rankin, Jno. Musgrove.

Engineer: Thos. B. Williams.

Master Mechanic: Hy. W. Evans.

Head Office: Canmore, Alta.

Mine Office: Canmore, Alta.

Location of Mine: Sec. 29, Tp. 24, Rge. 10, W. 5th M.

Area: 8,241 acres.

Method of Ventilation:

Five seams are being operated at this mine, viz: No. 1, 5 ft.; No. 3, 5 ft.; No. 4, 4 ft.; Carey, 7 ft. and Sedlock, 5 ft. in thickness. These seams are dipping at an inclination of 45 degrees.

The haulage is done by means of compressed air locomotives. Practically no work has been done at the No. 1 mine during the past year. In the No. 2 mine, compressed air locomotives have been installed. Three boilers 72 ins. by 18 ft. of the Leonard type and one 250 k. w. generator have been installed and wash-house and machine shop have been erected.

Ad. McPherson.

Location of Mine: Sec. 8, Tp. 20, Rge. 2, W. 5th M.
 Area: 2 acres.
 Method of Ventilation: Natural.

The average thickness of the seam at this mine is 7 ft. It is operated by means of a shaft 12 ft. long by 5 ft. wide by 110 ft. deep. The dip of the strata is 85 degrees. This mine is operated on a small scale and supplies local demand only.

H. & W. Ansley.

Location of Mine: Sec. 5, Tp. 13, Rge. 7, W. 4th M.
 Area: 1,280 acres.
 Method of Ventilation: Natural.

The seam which is lying at a depth of 250 ft. from the surface is 7 ft. in thickness.

Canadian Pacific Railway Company.

(Department of Natural Resources)

Bankhead.

President: Sir Thos. G. Shaughnessy.
 Vice-President: D. McNicoll.
 Directors: R. B. Angus, A. R. Creelman, K.C., Hon. Jas. Dunsmuir,
 Sir Sanford Fleming, Herbert S. Holt, Chas. R. Hosmer, Hon.
 Robert MacKay, W. D. Matthews, David McNicoll, A. M. Nanton,
 Sir Edmund B. Osler, Sir Thos. G. Shaughnessy, Sir Thos. Skinner,
 Sir Wm. T. Van Horne.
 Secretary: W. R. Baker.
 Treasurer: H. E. Suckling.
 Manager: P. L. Naismith.
 General Superintendent: Lewis Stockett.
 Mine Manager: John Watters.
 Overman: Thos. Bastian.
 Examiners: R. Smith, R. Muir, T. Thompson, R. Littler, J. Littler, A.
 Watters, J. Brownrigg, M. Embree.
 Engineer: R. Dougall.
 Master Mechanic: David Smith.
 Head Office: Calgary, Alta.
 Mine Office: Bankhead, Alta.
 Location of Mine: Secs. 19/30, Tp. 26, Rge. 11, W. 5th M.
 Area: 8,480 acres.
 Method of Ventilation: Clifford-Capell fan.

Five seams are being operated at this mine: 3 ft. 6 ins., 2 ft. 6 ins., 8 ft., 8 ft. and 10 ft. in thickness respectively. The inclination of the strata varies from 45 to 70 degrees.

During the year an electrically driven fan has been installed at "C" level and reinforced concrete buildings erected for transformers. A lamp-house has also been erected.

Albert Trentham.

Location of Mine: Sec. 26, Tp. 31, Rge. 24, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The seam which is lying at a depth of 70 ft. from the surface is 4 ft. 2 ins. in thickness.

The mine is operated on a small scale and supplies local demand only.

Dodds, Currie & Hoding.

Location of Mine: Sec. 12, Tp. 29, Rge. 23, W. 4th M.
Area: 180 acres.
Method of Ventilation: Natural.

The seam which is lying at a depth of 100 ft. from the surface is 4 ft. 4 ins. in thickness.

William Kummer.

Location of Mine: Sec. 8, Tp. 18, Rge. 2, W. 5th M.
Area: 160 acres.
Method of Ventilation: Natural.

The seam which is lying at a depth of 75 ft. from the surface is 7 ft. in thickness. This mine is operating on a small scale and supplies local demand.

George Watson

Location of Mine: Sec. 22, Tp. 31, Rge. 24, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam at this mine lies at a depth of 50 ft. from the surface and is 3 ft. 6 ins. in thickness. The mine is operated on a small scale.

Redcliff Brick and Coal Company, Limited.

Authorized Capital: \$900,000.00 .
President: C. H. Kohler.
Vice-President: F. H. Peterson.
Directors: V. W. Baylis, E. Hoidale, F. H. Peterson, C. H. Wagner, H. N. Owen, A. H. Cutts, J. H. Christian, J. S. McLean, C. H. Kohler, E. H. Sellhorn, H. O. Wheeler.
Secretary: V. W. Baylis.
Treasurer: E. Hoidale.
Managing Director: E. H. Sellhorn.
Mine Manager: Robert Hamilton.
Engineer: P. Lavalie.
Master Mechanic: A. M. Coleman.
Head Office: Redcliff, Alta.
Mine Office: Redcliff, Alta.
Location of Mine: Sec. 5, Tp. 13, Rge. 6, W. 4th M.
Area: 2,500 acres.
Method of Ventilation: Natural.

This seam which is lying at a depth of 210 ft. from the surface is 4 ft. 10 ins. in thickness and is entered by means of a shaft.

John P. Dweaks.

Location of Mine: Sec. 34, Tp. 38, Rge. 23, W. 4th M.
 Area: 20 acres.
 Method of Ventilation: Natural.

Two seams are being operated at this mine, 4 ft. and 1 ft. 2 ins. in thickness respectively, the depth from the surface to the top seam being 30 ft. A small tippie has been erected during the year.

John Russell.

Location of Mine: Sec. 13, Tp. 26, Rge. 5, W. 5th M.
 Area: 4,800 acres.
 Method of Ventilation: Forcing fan.

This seam which is of a semi-bituminous nature is 6 ft. in thickness, pitching at an inclination of 20 degrees. A slope 6 ft. high by 9 ft. wide has been sunk in the coal for a distance of 2,240 ft.

This mine was formerly operated by the Mitford (Calgary) Colliery Company, Ltd.

Poxon & Blacklock.

Location of Mine: Sec. 15, Tp. 29, Rge. 23, W. 4th M.
 Area: 80 acres.
 Method of Ventilation: Natural.

The seam at this mine is 4 ft. in thickness and is entered by means of a shaft 4 ft. square by 70 ft. deep.

Hedstrom Brothers.

Location of Mine: Sec. 7, Tp. 29, Rge. 22, W. 4th M.
 Area: 80 acres.
 Method of Ventilation: Natural.

The seam at this mine has an average thickness of 3 ft. and is lying at a depth of 100 ft. from the surface. The mine is operated on a small scale.

The Knee Hill Coal Company, Limited.

Authorized Capital: \$500,000.00.
 President: Thomas Gaddes.
 Vice-President: N. J. Christie.
 Directors: Thomas Gaddes, George Gaddes, N. J. Christie, Duncan Stuart, Ed. McBride, A. Finlayson, C. McPherson, J. P. McArthur, E. McBride.
 Secretary: H. Adshead.
 Managing Director: N. J. Christie.
 Overman: Robt. Cook.
 Head Office: 23 McDougal Block, Calgary, Alta.
 Mine Office: Box 23, Ghost Pine Creek, Alta.
 Location of Mine: N. E. $\frac{1}{4}$ Sec. 4, Tp. 31, Rge. 22, W. 4th M.
 Area: 540 acres.
 Method of Ventilation: Natural.

The seam which is 4 ft. 6 ins. in thickness is lying at a depth of 75 ft. from the surface and is entered by means of a drift 4 ft. high by 7 ft. wide. This mine is operated on a small scale.

Prairie Coal Company, Limited.

Authorized Capital: \$1,000,000.00.
 President: Geo. F. Wilson.
 Vice-President: James Balfour.
 Directors: John King, James Wood, C. R. Westgate, F. M. Jordan, J. A. Bertwistle.
 Secretary-Treasurer: Frederick W. Dennis.
 Managing Director: C. R. Westgate.
 Overman: F. W. Dennis.
 Head Office: Regina, Sask.
 Mine Office: Bow City, Eyremore, Alta.
 Location of Mine: Sec. 16, Tp. 17, Rge. 17, W. 4th M.
 Area: 5,000 acres.
 Method of Ventilation: Furnace ventilation.

The seam which is lying at a depth of 125 ft. from the surface is 5 ft. in thickness. The mine is operated on a small scale.

The Georgetown Collieries, Limited.

Authorized Capital: \$250,000.00.
 Chairman: Sydney King George.
 Directors: S. K. George, J. T. Phoenix, S. C. K. George, Sir Thos. Hungerford Holdrick.
 Secretary-Treasurer: Wm. Edward Grant Hale.
 Managing Director: S. C. K. George.
 General Manager: W. Holt Wain.
 Mine Manager: J. L. Parker.
 Examiners: Wm. Ashurst, Wm. Devoy, Joe Sedlock.
 Engineer: J. L. Parker.
 Master Mechanic: H. Alexander.
 Head Office: 28-30 Lime Street, London, England.
 Mine Office: Canmore, Alta.
 Location of Mine: Sec. 6, Tp. 25, Rge. 10, W. 5th M.
 Method of Ventilation: Forcing fan.

One seam which is 7 ft. in thickness and which is pitching at an inclination of 25 degrees is being operated. The mine is entered by means of a slope 12 ft. wide by 7 ft. high by 720 ft. long. A pump capable of throwing 250 gallons per minute has been installed. No improvements of any importance have been made during the year.

The Spicer Coal Company, Limited.

Authorized Capital: \$60,000.00.
 President: James D. MacDonald.
 Vice-President: George H. Clare.
 Directors: James D. Macdonald, George H. Clare, John C. Bell, R. T. Chowan, Thos. K. McCallum, John Spicer.
 Secretary-Treasurer: Richard T. Chowan.
 Managing Director: John Spicer.
 Head Office: Saskatoon, Sask.
 Mine Office: Dinant, Alberta.
 Location of Mine: S. W. $\frac{1}{4}$ Sec. 14, Tp. 48, Rge. 20, W. 4th M.
 Area: 160 acres.
 Method of Ventilation: Natural.

The seam at this mine is 6 ft. in thickness and is lying at a depth of 40 ft. from the surface. The mine is operated on a small scale.

W. B. Potter.

Location of Mine: Sec. 15, Tp. 44, Rge. 19, W. 4th M.
 Area: 160 acres.
 Method of Ventilation: Natural.

The seam which is 3 ft. in thickness lies at a depth of 45 ft. from the surface. The mine is operated on a small scale and is entered by a drift.

Fortner & Wright.

Location of Mine: S. E. $\frac{1}{4}$ of Sec. 26, Tp. 37, Rge. 14, W. 4th M.
Area: 160 acres.
Method of Ventilation: Natural.

The seam at this mine is 6 ft. in thickness and lies at a depth of 15 ft. from the surface.

Bish Brothers & Legear.

Location of Mine: Sec. 36, Tp. 40, Rge. 16, W. 4th M.
Area: 80 acres.
Method of Ventilation: Natural.

One seam 8 ft. in thickness and lying at a depth of 40 ft. from the surface is being operated at this mine. A 10 in. by 12 in. single stage air compressor and two Sullivan coal cutting machines have been installed.

A. D. MacCormack.

Location of Mine: Sec. 34, Tp. 37, Rge. 14, W. 4th M.
Area: 320 acres.
Method of Ventilation: Natural.

The seam at this mine is 5 ft. in thickness and lies at a depth of 35 ft. from the surface.

The Round Hill Collieries, Limited.

Authorized Capital: \$100,000.00.
President: D. Twomey.
Directors: D. Twomey, G. P. Smith, M.P.P., M. A. Maxwell, Dr. G. G. Steward.
Secretary-Treasurer: J. Twomey.
Head Office: Round Hill, Alta.
Mine Office: Round Hill, Alta.
Location of Mine: Sec. 30, Tp. 48, Rge. 18, W. 4th M.
Method of Ventilation: Natural.

The seam which is 6 ft. in thickness is operated by means of a slope 12 ft. wide by 6 ft. high and 60 ft. long. There is a cover of 18 ft. over the coal.

Julius Wilkinson.

Location of Mine: Sec. 28, Tp. 42, Rge. 17, W. 4th M.
Area: 1 acre.
Method of Ventilation: Natural.

The coal seam which lies at a depth of 80 ft. from the surface is 4 ft. in thickness.

Brazeau Collieries, Limited.

Authorized Capital: \$4,000,000.00.
President: Sir William Mackenzie.
Vice-President: Martin Nordegg.

Directors: Sir Wm. Mackenzie, Sir Donald D. Mann, G. W. Buexenstein, A. J. Mitchell, M. Nordegg, L. Jadot, E. Baerwald.
 Secretary-Treasurer: H. Prudhomme.
 Mine Manager: J. Shanks.
 Overman: J. Stewart.
 Examiners: T. Keith, J. McKelvie, G. Snarey, J. D. Welch, W. Wesnedge.
 Engineer: Wm. Stevenson, Jr.
 Master Mechanic: J. Verdon.
 Head Office: 9 Toronto Street, Toronto, Ont.
 Mine Office: Nordegg, Alta.
 Location of Mine: Sec. 22, Tp. 40, Rge. 15, W. 5th M.
 Area: 2,560 acres.
 Method of Ventilation: Exhausting fan, reversible.

Two seams are being operated at this mine, one 6 ft. and the other 14 ft. in thickness. These seams are pitching at an inclination of 12 degrees. The mine is entered by means of a drift 13 ft. wide by 7 ft. high. Two electrically driven fans of the Jeffrey type with a capacity of 100,000 cubic ft. per minute and a water gauge of 2½ ins. have been installed. Wash-house equipped with hot and cold shower baths and 370 lockers have been built. A Marcus screen and a Christie box car loader have been added to the equipment. The tippie is capable of handling 2,000 tons per day.

James McGary.

Location of Mine: Sec. 19, Tp. 29, Rge. 12, W. 4th M.
 Area: 240 acres.
 Method of Ventilation: Natural.

The seam which lies at a depth of from 16 to 25 ft. from the surface is 9 ft. in thickness. It is operated by means of a slope 7 ft. wide by 8 ft. high by 50 ft. long.

Strader & Green.

Location of Mine: Sec. 18, Tp. 39, Rge. 15, W. 4th M.
 Area: 30 acres.
 Method of Ventilation: Natural.

The coal seam is 5 ft. 8 ins. in thickness and lies at a depth of 80 ft. from the surface. This mine is operated on a small scale.

Davis & Green.

Location of Mine: Sec. 18, Tp. 39, Rge. 15, W. 4th M.
 Method of Ventilation: Natural.

The average thickness of the seam which lies at a depth of 70 ft. from the surface is 5 ft. 6 ins., of which 4 ft. is mined.

The National Coal Company.

Location of Mine: Sec. 3, Tp. 38, Rge. 14, W. 4th M.
 Area: 773 acres.
 Method of Ventilation: Natural.

The seam operated at this mine is 5 ft. 6 ins. in thickness and lies at a depth of 20 ft. from the surface. This mine was formerly operated by the Coalbeck Coal & Clay Products Co., Ltd.

Baines & Fitts.

Location of Mine: Sec. 28, Tp. 39, Rge. 16, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. 6 ins. in thickness and is lying at a depth of 50 ft. from the surface. The mine is entered by a slope 6 ft. high by 8 ft. wide.

Joseph Wagner.

Location of Mine: Sec. 28, Tp. 39, Rge. 16, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam which is at a depth of 50 ft. from the surface is 4 ft. 6 ins. in thickness.

Battle River Collieries, Limited.

Authorized Capital: \$1,000,000.00.
President: A. S. Rosenroll.
Vice-President: A. Bramley-Moore.
Directors: A. S. Rosenroll, A. Bramley-Moore, C. T. Stacey.
Secretary-Treasurer: A. S. Rosenroll.
Mine Manager: G. F. Cunningham.
Master Mechanic: W. B. Haliday.
Head Office: Rosenroll, Alta.
Mine Office: Rosenroll, Alta.
Location of Mine: Sec. 7, Tp. 16, Rge. 18, W. 4th M.
Area: 3,200 acres.
Method of Ventilation: Natural.

The average thickness of the seam at this mine is 7 ft. 6 ins. It is lying at a depth of 162 ft. from the surface. The mine is entered by means of a shaft 8 ft. 4 ins. long by 6 ft. wide. No improvements of any importance have been made during the year.

George Davies.

Location of Mine: Sec. 24, Tp. 37, Rge. 14, W. 4th M.
Area: 260 acres.
Method of Ventilation: Natural.

This mine was formerly operated by the Inter-Provincial Coal Co., Ltd. The seam is 4 ft. in thickness and lies at a depth of 21 ft. from the surface. The mine is entered by means of a shaft 12 ft. long by 6 ft. 6 ins. wide.

Halbert Brothers.

Location of Mine: Sec. 14, Tp. 33, Rge. 23, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The seam at this mine is 5 ft. 5 ins. in thickness and is lying at a depth of 80 ft. from the surface.

Newcastle Coal Company, Limited.

Authorized Capital: \$250,000.00.
President: Jesse Gouge.
Directors: Jesse Gouge, G. N. Coyle, Maud Gouge, G. W. Coyle.
Secretary-Treasurer: G. N. Coyle.
Mine Manager: Jas. Holden.
Examiners: Joe Parker, Mike Gilday, H. Nelson.
Engineer: Geo. Davis.
Master Mechanic: Ed. Hasten, D. McKay.
Head Office: Drumheller, Alta.
Mine Office: Drumheller, Alta.
Location of Mine: Sec. 9, Tp. 29, Rge. 20, W. 4th M.
Method of Ventilation: Exhausting fan.

The average thickness of the seam at this mine is 4 ft. and it is lying at a depth of from 100 to 300 ft. During the year an air shaft has been sunk and a fan installed capable of producing 60,000 cubic ft. of air per minute.

Duncan McKenzie.

Location of Mine: Sec. 29, Tp. 30, Rge. 22, W. 4th M.
Area: 40 acres.
Method of Ventilation: Natural.

The seam at this mine is 3 ft. in thickness and is lying at a depth of 200 ft. from the surface. The mine is entered by means of a drift 6 ft. high by 5 ft. wide.

George C. Yard.

Location of Mine: Sec. 13, Tp. 34, Rge. 22, W. 4th M.
Area: 160 acres.
Method of Ventilation: Natural.

The seam which is lying at a depth of 25 ft. from the surface is 5 ft. 6 ins. in thickness and is entered by means of a slope 5 ft. 2 ins. high by 5 ft. wide by 180 ft. long. The mine is worked on a very small scale and supplies local demand only.

John Heaney.

Location of Mine: Sec. 4, Tp. 38, Rge. 14, W. 4th M.
Method of Ventilation: Natural.

The seam at this mine is 5 ft. 6 ins. in thickness and is lying at a depth of 25 ft. from the surface. The mine is operated on a small scale.

Redcliff Clay Products Company, Limited.

Authorized Capital: \$100,000.00.
President: H. O. Wheeler.
Vice-President: L. H. Bryant.
Directors: H. O. Wheeler, L. H. Bryant, J. H. Farmer.
Secretary: J. H. Farmer.
Treasurer: L. H. Bryant.
Head Office: Redcliff, Alta.
Mine Office: Redcliff, Alta.
Location of Mine: Sec. 9, Tp. 13, Rge. 6, W. 4th M.
Area: 65 acres.
Method of Ventilation: Natural.

The seam at this mine is 15 ft. in thickness and is lying at a depth of 25 ft. from the surface. The mine is entered by means of a slope 7 ft. high by 8 ft. wide by 60 ft. long. Very little work has been done during the year.

Robert McAllister.

Location of Mine: Sec. 29, Tp. 13, Rge. 10, W. 4th M.

The thickness of the seam at this mine is 4 ft. and it is lying at a depth of 120 ft. from the surface. The mine is entered by means of a drift 6 ft. high by 8 ft. wide, and is worked on a small scale.

Alexander W. McKinlay.

Location of Mine: Sec. 10, Tp. 34, Rge. 22, W. 4th M.

Area: 80 acres.

Method of Ventilation: Natural.

The seam which is lying at a depth of 250 ft. from the surface is 3 ft. 3 ins. in thickness and is entered by means of a drift 6 ft. high by 6 ft. wide.

Rosedale Coal and Clay Products Company, Limited.

Location of Mine: Sec. 28, Tp. 28, Rge. 19, W. 4th M.

Area: 44,000 acres.

Method of Ventilation: Natural.

The seam which is lying at a depth of 35 ft. from the surface is 9 ft. in thickness and is entered by means of a shaft 13 ft. long by 9 ft. wide. During the year 9 miners' cottages have been erected. No other improvements of any importance have been made.

Rosedeer Coal Mining Company, Limited.

Authorized Capital: \$1,000,000.00.

President: V. Raby.

Vice-President: R. B. Irvine.

Directors: Chas. S. Smith, L. A. Tupper, R. B. Irvine, A. E. St. Laurent, Geo. Tupper.

Secretary: L. A. Tupper.

Treasurer: Chas. S. Smith.

Mine Manager: James Hargreaves.

Engineer: J. Carey.

Head Office: Calgary, Alta.

Mine Office: Wayne Siding, Drumheller, Alta.

Location of Mine: Sec. 20, Tp. 28, Rge. 19, W. 4th M.

Area: 4,800 acres.

Method of Ventilation: Natural.

The average thickness of the seam at this mine is 7 ft. and is entered by means of a slope 6 ft. high by 8 ft. wide by 170 ft. long. The mine is connected with the Calgary branch of the Canadian Northern Railway by means of a spur track three quarters of a mile in length. During the year a bunk-house, cook-house and blacksmith's shop have been erected. No other improvements of any importance have been made.

Drumheller Coal Company, Limited.

Location of Mine: Sec. 2, Tp. 29, Rge. 20, W. 4th M.
 Area: 1,540 acres.
 Method of Ventilation: Sirocco fan.

The average thickness of the seam at this mine is 5 ft. 10 ins. and it is lying at a depth of 74 ft. from the surface. The mine is entered by means of a slope 6 ft. 6 ins. wide by 6 ft. 6 ins. high. An air shaft 5 ft. by 10 ft. is sunk to a depth of 78 ft. During the year the tippie has been extended and a steam driven Sirocco fan has been installed. Safety lamps of the Wolf type are used throughout the mine.

Hayd Hill Coal Company.

Location of Mine: Sec. 21, Tp. 30, Rge. 17, W. 4th M.
 Method of Ventilation: Natural.

The seam at this mine is 4 ft. 8 ins. in thickness and is lying at a depth of 47 ft. from the surface. The mine is worked on a small scale.

Joseph F. Woolings

Location of Mine: Sec. 7, Tp. 22, Rge. 3, W. 5th M.
 Area: 160 acres.
 Method of Ventilation: Natural.

The seam which is lying at a depth of 20 ft. from the surface is 6 ft. in thickness and is pitching at an inclination of 40 to 52 degrees. The mine is worked on a very small scale.

The Big Valley Collieries, Limited.

Authorized Capital: \$100,000.00.
 President: John Gillespie.
 Vice-President: S. T. Smith.
 Directors: John Gillespie, S. T. Smith, Wm. Gillespie, A. Albertson.
 Secretary-Treasurer: Wm. Gillespie.
 Overman: A. Albertson.
 Engineer: T. Ratray.
 Head Office: Big Valley, Alta.
 Mine Office: Big Valley, Alta.
 Location of Mine: Sec. 1, Tp. 36, Rge. 20, W. 4th Mer.
 Area: 1,300 acres.
 Method of Ventilation: Natural.

The seam which is lying at a depth of about 200 ft. from the surface is 6 ft. 5 ins. in thickness and is entered by means of a drift 5 ft. 9 ins high by 7 ft. wide.

Midland Collieries, Limited.

Authorized Capital: \$300,000.00.
 President: T. G. McMullen.
 Directors: T. G. McMullen, W. F. Jennison, W. G. Fraser, W. J. MacDougall.
 Secretary: James MacMurray.
 General Manager: S. Lent McMullen.
 Mine Manager: John Robertson.
 Examiners: Cory Weatherbee, Wm. Harmison.
 Master Mechanic: Ed. Ward.

Head Office: Truro, N. S.

Mine Office: Drumheller, Alta.

Location of Mine: Sec. 9, Tp. 29, Rge. 20, W. 4th M.

Area: 1,400 acres.

Method of Ventilation: Reversible fan.

The seam at this mine is 6 ft. 8 ins. in thickness and is lying at a depth of 130 ft. from the surface. The mine is entered by means of a slope 6 ft. high by 9 ft. wide by 400 ft. long. During the year a fan capable of producing 27,000 cubic feet of air per minute, and a 40 h. p. boiler have been installed. Safety lamps of the Wolf type are used throughout the mine. No other improvements of any importance have been made. The plant is capable of producing 500 tons per day of eight hours.

The Redcliff Pressed Brick Company, Limited.

Authorized Capital: \$150,000.00.

President: James Hargrave.

Vice-President: James Mitchell.

Directors: Jas. Hargrave, Jas. Mitchell, Dr. J. C. Hargrave, Herbert J.

Sissons, A. W. Woodcock and John Jackman.

Secretary-Treasurer: Herbert J. Sissons.

Mine Manager: W. Watson.

Engineer: Fred. Belisle.

Master Mechanic: John Jackman.

Head Office: Redcliff, Alta.

Mine Office: Redcliff, Alta.

Location of Mine: Sec. 9, Tp. 13, Rge. 6, W. 4th M.

Area: 80 acres.

Method of Ventilation: Natural.

The seam at this mine is 15 ft. in thickness and lies at a depth of 30 ft. from the surface. Practically no work has been done during the year.

William Beech.

Location of Mine: Sec. 36, Tp. 31, Rge. 24, W. 4th M.

Area: 920 acres.

Method of Ventilation: Forcing fan.

This mine was formerly operated by the Union Coal Co., Ltd. The seam is lying at a depth of 160 ft. from the surface and is 5 ft. in thickness. The mine is entered by means of a shaft 12 ft. long by 9 ft. wide by 160 ft. deep. During the year an air shaft 6 ft. by 8 ft. was sunk to a depth of 160 ft. and a 30 k. w. electric generator driven by a gasoline engine installed. No other improvements of any importance have been made.

Cable Brothers.

Location of Mine: Sec. 28, Tp. 39, Rge. 16, W. 4th M.

Area: 80 acres.

Method of Ventilation: Natural.

The seam at this mine is 4 ft. 6 ins. in thickness and is lying at a depth of 24 ft. from the surface. During the year a tippie has been erected and a pump driven by a gasoline engine installed.

The Saunders Creek Coal Company, Limited.

Authorized Capital: \$200,000.00.
 President: James Wright.
 Vice-President: J. H. Kellick.
 Directors: Jas. Wright, Perry McDermott, E. S. Brett, Thos. Rees, E. Fortner.
 Secretary-Treasurer: E. C. Brett.
 Managing Director: Ed. Fortner.
 Master Mechanic: Henry Johnson.
 Head Office: Rocky Mountain House, Alta.
 Mine Office: Rocky Mountain House, Alta.
 Location of Mine: Tp. 40, Rge. 12, W. 5th M.
 Area: 1,260 acres.
 Method of Ventilation: Natural.

Two seams are being worked at this mine: No. 1, 10 ft. in thickness and No. 2, 6 ft. in thickness. The strata is dipping at an inclination of 8 degrees. No improvements of any importance have been made during the year.

Thomas McCafferty.

Location of Mine: Sec. 18, Tp. 33, Rge. 13, W. 4th M.
 Method of Ventilation: Air shaft, 3 ft. square. Natural.

This mine was formerly operated by Baxter & Kemp. The seam is 3 ft. 6 ins. in thickness and is lying at an average depth of 17 ft. from the surface.

Red Deer Valley Coal Company, Limited.

Authorized Capital: \$500,000.00.
 President: Slocum Howland.
 Vice-President: A. P. Patrick.
 Directors: S. Howland, A. P. Patrick, W. H. Lyon.
 Secretary: W. H. Lyon.
 Treasurer: S. Howland.
 Mine Manager: D. A. Macaulay.
 Overman: John K. Miller.
 Examiner: Jos. Thompson.
 Engineer: H. Baron.
 Head Office: 606 Grain Exchange, Calgary Alta.
 Mine Office: Drumheller, Alta.
 Location of Mine: Sec. 7, Tp. 29, Rge. 20, W. 4th M.
 Area: 3,500 acres.
 Method of Ventilation: Exhausting fan.

This mine was formerly operated by Slocum Howland. The average thickness of the seam which is lying at a depth of 170 ft. from the surface is 10 ft. The mine is entered by means of a shaft 17 ft. 4 ins. long by 8 ft. 6 ins. wide. A tippie equipped with a Marcus screen and rotary dumps, capable of handling 1,000 tons per day are in the course of erection. During the year a number of cottages, offices and bunk-house have been erected and the following machinery added to the equipment: Sirocco fan, capable of producing 100,000 cubic ft. of air per minute; 125 k. w. generator, driven by 160 h. p. Robb engine; two 150 h. p. Jenckes return tubular boilers. The mine is connected with the Calgary branch of the Canadian Northern Railway by a spur track 1½ miles in length.

Zarth & Embury.

Location of Mine: Sec. 22, Tp. 29, Rge. 20, W. 4th M.
Method of Ventilation: Natural.

This mine was formerly operated by R. E. Bishop. The seam which is lying at a depth of 75 ft. from the surface is 4 ft. in thickness and is entered by means of a slope 6 ft. high by 7 ft. wide. The mine is operated on a small scale.

Carter & Mallott.

Location of Mine: Sec. 26, Tp. 27, Rge. 14, W. 4th M.
Area: 80 acres.
Method of Ventilation: Natural.

The coal seam is 6 ft. 6 ins. in thickness and is lying at a depth of 15 ft. from the surface.

Sterling Coal Company, Limited.

Authorized Capital: \$100,000.00.
President: Jas. D. Traynor.
Vice-President: C. R. Henderson.
Directors: J. D. Traynor, C. R. Henderson, Geo. F. Wilson.
Secretary-Treasurer: Geo. F. Wilson.
Mine Manager: James Hargreaves.
Overman: T. E. Moore.
Engineer: W. E. McCullduff.
Master Mechanic: Jas. McConnell.
Head Office: Calgary, Alta.
Mine Office: Drumheller, Alta.
Location of Mine: Sec. 9, Tp. 29, Rge. 20, W. 4th M.
Area: 440 acres.
Method of Ventilation: Natural.

One seam which is 6 ft. 6 ins. in thickness is being operated. It is entered by means of a shaft 12 ft. long by 9 ft. wide by 150 ft. deep. The main entries are driven 12 ft. wide by 7 ft. high.

Benjamin Hronek.

Location of Mine: Sec. 18, Tp. 39, Rge. 15, W. 4th M.
Area: 30 acres.
Method of Ventilation: Natural.

The seam at this mine is 5 ft. 10 ins. in thickness and is lying at a depth of 74 ft. from the surface. A small tippie has been erected with bunker capable of holding 45 tons.

Hugh Weaver.

Location of Mine: Sec. 18, Tp. 44, Rge. 19, W. 4th M.
Area: 4 acres.
Method of Ventilation: Natural.

The seam is 3 ft. 6 ins. in thickness and is lying at a depth of 100 ft. from the surface.

Wm. D. Gordon.

Location of Mine: Sec. 10, Tp. 29, Rge. 20, W. 4th M.
Area: 113 acres.
Method of Ventilation: Natural.

This mine is operated on a very small scale and supplies local demand only.

Star Coal Mines, Limited.

Authorized Capital: \$50,000.00.
President: J. R. Brodie.
Vice-President: William Murray.
Directors: J. R. Brodie, William Murray and William Henderson.
Secretary-Treasurer: William Henderson.
Engineer: Ben Johnson.
Head Office: Rosedale, Alta.
Mine Office: Rosedale, Alta.
Location of Mine: Sec. 28, Tp. 28, Rge. 19, W. 4th M.
Method of Ventilation: Natural.

The seam at this mine is 5 ft. 8 ins. in thickness and is lying at a depth from the surface of 150 ft. The mine is entered by means of a drift 7 ft. high by 8 ft. wide; main entries are driven 8 ft. wide by 7 ft. high; rooms, 20 ft. wide and pillars 15 ft. wide by 200 ft. long.

This mine was formerly operated by W. Henderson.

Martin Johnson.

Location of Mine: Sec. 18, Tp. 39, Rge. 15, W. 4th M.
Method of Ventilation: Natural.

The seam at this mine is 5 ft. in thickness, 4 ft. of which is mined; it is lying at a depth of 80 ft. from the surface. The mine is worked on a very small scale.

Anderson Brothers.

Location of Mine: Sec. 12, Tp. 29, Rge. 13, W. 4th M.
Area: 160 acres.
Method of Ventilation: Natural.

The seam which is lying at a depth of 28 ft. from the surface has an average thickness of 8 ft. The mine is entered by means of a slope 6 ft. 6 ins. high by 6 ft. wide.

Anthony Jackson.

Location of Mine: Sec. 14, Tp. 31, Rge. 24, W. 4th M.
Area: 20 acres.
Method of Ventilation: Natural.

The seam is 3 ft. 8 ins. in thickness and lies at a depth of 60 ft. from the surface.

Charles S. Wilson.

Location of Mine: Sec. 14, Tp. 31, Rge. 24, W. 4th M.
Area: 21 acres.
Method of Ventilation: Natural.

The seam which lies at a depth of 75 ft. from the surface is 3 ft. 8 ins. in thickness and is entered by a drift 5 ft. 6 ins. high by 8 ft. wide.

Hiram James.

Location of Mine: Sec. 28, Tp. 40, Rge. 15, W. 4th M.

Area: 40 acres.

Method of Ventilation: Natural.

The seam is 8 ft. in thickness and is lying at a depth of 30 ft. from the surface. The mine is operated on a very small scale.

William Robinson.

Location of Mine: Sec. 32, Tp. 40, Rge. 15, W. 4th M.

Area: 80 acres.

Method of Ventilation: Natural.

The seam which is lying at a depth of 22 ft. from the surface has an average thickness of 8 ft.

Louis Bergren.

Location of Mine: Sec. 11, Tp. 29, Rge. 16, W. 4th M.

Area: 20 acres.

Method of Ventilation: Natural.

The seam at this mine is 4 ft. in thickness and lies at a depth of 21 ft. from the surface.

EDMONTON DISTRICT.

MR. ERNEST D. BLACK, DISTRICT INSPECTOR OF MINES, EDSON.

The Clover Bar Coal Company, Limited.

Authorized Capital: \$500,000.00.

President: H. E. R. Rogers.

Vice-President: J. J. Millidge.

Directors: H. E. R. Rogers, J. J. Millidge, H. H. Robertson.

Secretary: J. F. Hunter.

Treasurer: H. H. Robertson.

General Manager: J. F. Hunter.

Overman: Geo. W. Booth.

Head Office: Edmonton, Alta.

Mine Office: Clover Bar, Alta.

Location of Mine: Sec. 18, Tp. 53, Rge. 23, W. 4th M.

Area: 813 acres.

Method of Ventilation: Natural.

The seam at this mine is 7 ft. in thickness and lies at a depth of 85 ft. from the surface. No improvements of any importance have been made during the year.

White Star Coal Company, Limited.

Authorized Capital: \$75,000.00.

President: Jas. W. Blain.

Directors: J. W. Blain, J. H. Morris, R. B. Douglas, J. M. Douglas, M. P., R. Crookart, E. W. McKenzie and A. L. Brick.

Secretary: A. L. Brick.

Treasurer: B. L. Abram.

General Manager: J. W. Blain.

Overman: Joseph C. Machin.

Head Office: 7 Whyte Avenue, Edmonton, Alta.

Location of Mine: Sec. 25, Tp. 51, Rge. 25, W. 4th M.
 Area: 640 acres.
 Method of Ventilation: Natural.

The seam is 5 ft. in thickness and lies at a depth of 115 ft. from the surface. This mine has no railway connections and is worked on a small scale.

The Cardiff Collieries, Limited.

Authorized Capital: \$700,000.00.
 President: J. W. deC. O'Grady.
 Vice-President: Andrew Keeley.
 Directors: Andrew Keely, H. H. Chown, J. H. Morris, W. M. Fisher,
 E. A. James, G. F. Johnston, G. H. Eaton.
 Secretary: Geo. Sumner.
 Treasurer: E. A. James.
 General Manager: G. H. Eaton.
 Mine Manager: Robt. Drinnan.
 Overman, Alex. McGregor.
 Examiner: T. Bowen.
 Master Mechanic: M. J. Saunders.
 Head Office: Edmonton, Alta.
 Mine Office: Cardiff, Alta.
 Location of Mine: Sec. 25, Tp. 55, Rge. 25, W. 4th M.
 Area: 630 acres.
 Method of Ventilation: Forcing fan.

The average thickness of the seam is 16 ft. at a depth of 30 ft. from the surface. The mine is entered by means of a slope 8 ft. high by 18 ft. wide by 150 ft. long. Main entries are driven 12 ft. wide by 8 ft. high and the rooms 22 ft. wide by 8 ft. high. During the year a 150 h. p. Leonard boiler was installed and an air shaft sunk.

The Humberstone Coal Company.

General Manager: E. E. Br  wer.
 Mine Manager: Wm. Duggan.
 Overman: K. Campbell.
 Master Mechanic: C. Stratton.
 Head Office: 9981 Jasper Ave., Edmonton, Alta.
 Location of Mine: N. W.    Sec. 7, Tp. 53, Rge. 23, W. 4th M.
 Area: 400 acres.
 Method of Ventilation: Natural.

Two seams are being worked at this mine, the top seam being 7 ft. thick and the bottom seam 5 ft. thick. The top seam is at a depth of 153 ft. from the surface and the bottom seam at a depth of 183 ft. from the surface. A screening plant equipped with shaker screens and capable of handling 450 tons per day of eight hours has been erected.

Magrath Hart & Company.

Overman: Carmie H. May.
 Engineer: David Jones.
 Head Office: 40 Jasper Ave. East, Edmonton Alta.
 Mine Office: The Highlands, Edmonton, Alta.
 Location of Mine: River Lot 42, Tp. 53, Rge. 25, W. 4th M.
 Area: 236 acres.
 Method of Ventilation: Natural.

Only one seam which is 7 ft. 6 ins. in thickness, lying at a depth of 54 ft. from the surface is being worked at this mine.

The mine is operated on a small scale and has no railway connections.

Edmonton Standard Coal Company, Limited.

Authorized Capital: \$500,000.00.

President: H. Waddington.

Vice-President: W. G. Ellis.

Directors: H. Waddington, W. G. Ellis and Wm. Munns.

Secretary-Treasurer: Wm. Munns.

General Manager: W. C. McMay.

Overman: C. M. Taylor.

Engineer: D. Evans.

Head Office: Toronto, Ont.

Mine Office: Edmonton, Alta.

Location of Mine: River Lot 26, Tp. 53, Rge. 24, W. 4th M.

Area: 125 acres.

Method of Ventilation: Forcing fan.

Two seams are being operated, the top seam being 5 ft. 9 ins. and the bottom seam 3 ft. 6 ins. in thickness. The top seam has a cover of 60 ft. and the bottom seam a cover of 90 ft.

Two shafts have been sunk to the bottom seam during the year and safety lamps of the Wolf type have been installed.

Keith & Fulton.

Secretary-Treasurer: D. S. Fulton.

Mine Manager: Norman Fraser.

Overman: Walter E. Williams.

Mine Office: Clover Bar, Alta.

Location of Mine: N. E. $\frac{1}{4}$ Sec. 7, Tp. 53, Rge. 23, W. 4th M.

Area: 40 acres.

The seam is 6 ft. in thickness and is lying at a depth of 80 ft. from the surface. No improvements have been made during the year.

The Great West Coal Company, Limited.

Authorized Capital: \$150,000.00.

President: James C. Dunn.

Directors: J. C. Dunn, W. S. Cupples and A. C. Dunn.

Secretary-Treasurer: Thos. S. Campbell.

Mine Manager: A. C. Dunn.

Overman: John Russell.

Examiners: Robert Graham, Geo. Bilson.

Master Mechanic: Antonia Beaumonte.

Head Office: 108 Rice Street, Edmonton, Alta.

Mine Office: Clover Bar, Alta.

Location of Drift Mine: Sec. 7, Tp. 53, Rge. 23, W. 4th M.

Location of Shaft Mine: Sec. 6, Tp. 53, Rge. 23, W. 4th M.

Area: 1,118 acres.

Method of Ventilation, Drift Mine: Natural.

Method of Ventilation, Shaft Mine: Schiele fan.

Two mines are being operated by this company, one of which is operated by means of shafts and the other by drifts. The thickness of the seam in the shaft mine is 4 ft. 9 ins. and the depth from the surface 175 ft. In the drift mine the seam is 6 ft. 6 ins. in thickness and is lying at a depth of 140 ft. from the surface.

Safety lamps of the Wolf type have been installed in the shaft mine during the year.

Cambrian Collieries, Limited.

Authorized Capital: \$20,000.00.
 President: David M. Duggan.
 Vice-President: David Astley.
 Directors: D. M. Duggan, D. Astley and D. Jones.
 Secretary-Treasurer: D. Jones.
 Overman: D. Astley.
 Master Mechanic: Gilbert Olson.
 Head Office: Room 22, Dominion Building, Edmonton, Alta.
 Mine Office: Namao, Alta.
 Location of Mine: N. W. $\frac{1}{4}$ Sec. 9, Tp. 55, Rge. 24, W. 4th M.
 Area: 160 acres.
 Method of Ventilation: Natural.

The average thickness of the seam at this mine is 5 ft. 9 ins. and it is lying at a depth of 50 ft. from the surface. A shaft 7 ft. square has been sunk during the year and equipped with self-dumping cages. A small hoisting engine and boiler have also been installed.

The Alberta Coal Mining Company, Limited.

Authorized Capital: \$250,000.00.
 President: Jas. L. Bell.
 Vice-President: Walter L. Carter.
 Directors: Jas. L. Bell, Walter L. Carter, Geo. S. Montgomery.
 Secretary-Treasurer: Geo. S. Montgomery.
 Mine Manager: Norman Fraser.
 Overman: Gus Oestheidt.
 Examiner: A. H. Johnson.
 Master Mechanic: Dolphus Dubia.
 Head Office: Room 10, Empire Block, Edmonton, Alta.
 Mine Office: Cardiff, Alta.
 Location of Mine: N. E. $\frac{1}{4}$ Sec. 23, Tp. 55, Rge. 25, W. 4th M.
 Area: 320 acres.
 Method of Ventilation: Natural.

The average thickness of the seam at this mine is 9 ft. and it is lying at a depth of 40 ft. from the surface. No improvements have been made during the year.

Western Coals, Limited.

Authorized Capital: \$10,000.00.
 President: John T. Radford.
 Vice-President: Geo. Pheasey.
 Directors: J. T. Radford, G. Pheasey, A. F. Betts.
 Secretary-Treasurer: A. F. Betts.
 Mine Manager: J. T. Radford.
 Overman: David Morris.
 Examiner: Wm. Rowbotham.
 Head Office: 127 Queen's Avenue, Edmonton, Alta.
 Mine Office: Edmonton, Alta.
 Location of Mine: River Lot 31, Tp. 53, Rge. 24, W. 4th M.
 Area: 130 acres.
 Method of Ventilation: Forcing fan.

The seam is 4 ft. 6 ins. in thickness and is lying at a depth of 50 ft. from the surface. No improvements have been made during the year.

The Dawson Coal Company, Limited.

Authorized Capital: \$30,000.00.
President: Richard Secord.
Vice-President: J. Henderson.
Directors: R. Secord, J. Henderson and H. J. Dawson.
Secretary-Treasurer: Chas. A. Hyndman.
Mine Manager: John A. McLenham.
Head Office: 6 McDougal Court, Edmonton, Alta.
Location of Mine: River Lot 25.
Area: 160 acres.
Method of Ventilation: Forcing fan.

The seam at this mine is 5 ft. 3 ins. in thickness and is lying at a depth of 114 ft. from the surface. Main entries are driven 7 ft. wide by 6 ft. 6 ins. high and rooms 16 ft. wide by 5 ft. 3 ins. high. The capacity of the plant is 300 tons per day of eight hours.

Twin City Coal Company, Limited.

Authorized Capital: \$600,000.00.
President: R. L. McIntyre.
Vice-President: J. A. Morden.
Directors: R. L. McIntyre, J. A. Morden, J. M. Sinclair, O. Baird and John Mackrell.
Secretary-Treasurer: Jas. M. Sinclair.
Agent: Norman Ross.
Mine Manager: J. B. deHart.
Examiners: W. Roberts, J. Byron.
Master Mechanic: A. J. Noble.
Head Office: 239-240 Confederation Life Building, Toronto, Ont.
Mine Office: Edmonton South, Alberta.
Location of Mine: River Lot 17.
Area: 380 acres.
Method of Ventilation: Forcing fan.

The seam at this mine is 5 ft. in thickness and is lying at a depth of 167 ft. from the surface. Main entries are driven 9 ft. wide by 5 ft. 9 ins. high and rooms 18 ft. wide by 5 ft. high.

The plant is capable of producing 375 tons per day of eight hours. During the year new screens and bunkers have been installed.

Nash & Williams.

Location of Mine: S. E. $\frac{1}{4}$ Sec. 8, Tp. 55, Rge. 24, W. 4th M.
Area: 10 acres.
Method of Ventilation: Natural.

The seam at this mine is 4 ft. 8 ins. in thickness and is lying at a depth of 80 ft. from the surface. The mine is entered by means of drifts and is only operating on a small scale.

The Yellowhead Pass Coal & Coke Company, Limited.

Authorized Capital: \$5,000,000.00.
President: M. J. O'Brian.
Vice-President: M. Doheny.
Directors: H. Doheny, H. J. Trihey.
Secretary-Treasurer: F. W. Rous.
General Manager: G. H. Richardson.
Mine Manager: M. C. Milne.
Overman: L. Parker.

Examiners: I. Thomas and J. W. Makin.
 Master Mechanic: J. F. Thompson.
 Head Office: Imperial Bank Chambers, Montreal, Que.
 Mine Office: Coalspur, Alta.
 Location of Mine: Sec. 6, Tp. 49, Rge. 21, W. 5th M.
 Area: 6,600 acres.
 Method of Ventilation: Sirocco forcing fan.

Two seams are being operated at this mine, each 8 ft. in thickness. The strata is dipping at an inclination of 70 degrees in a southerly direction. The mine is operated on the room and pillar method, the main entries being 8 ft. wide, rooms 9 ft. wide and pillars 30 ft. wide. A tippie with a Marcus screen capable of handling 500 tons per day of eight hours has been installed, also a revolving screen; a lamp-cabin and wash-house have also been erected.

The coal at the outcrop in No. 3 and No. 5 mines was ignited by a bush fire which occurred during the summer. Work was stopped in No. 3 mine and the mine closed up by means of stoppings made of wood with clay in between. In No. 5 mine, the fire occurred near the entrance to the mine. A drift has been driven under the affected area and the greater part of the heated coal loaded out.

Pembina Coal Operators, Limited.

Authorized Capital: \$10,000.00.
 President: H. M. E. Evans.
 Vice-President: E. J. Evans.
 Directors: H. M. E. Evans, E. J. Evans and M. L. Hyde.
 Secretary: H. Drabble.
 General Manager: M. L. Hyde.
 Mine Manager: S. D. Wark.
 Overman: Geo. W. Pemberton.
 Examiner: J. McSporran.
 Engineer: H. Pallot.
 Master Mechanic: W. C. Clarke.
 Head Office: Edmonton, Alta.
 Mine Office: Evansburgh, Alta.
 Location of Mine: Sec. 30, Tp. 53, Rge. 7, W. 5th M.
 Area: 10,500 acres.
 Method of Ventilation: Exhausting fan.

This mine was formerly operated by the Pembina Coal Co., Ltd. Two seams have been proved on the property, one 21 ft. 6 ins. in thickness and the other 7 ft. 6 ins. in thickness. Owing to the coal of the thick seam which is the top one, being of an inferior quality, the shafts were sunk to the bottom seam. This seam is at a depth of 300 ft. from the surface. Safety lamps of the Wolf type are installed throughout the mine. The trolley locomotives which were operating in this mine have been replaced by two 5 ton storage battery locomotives of the Edison type.

Canadian Coal & Coke Company, Limited. (Pacific Pass Colliery)

President: H. A. Lovett.
 Vice-President: Hon. Robt. MacKay.
 Directors: Hon. N. Curry, H. A. Lovett, K.C., Hon. W. B. Ross, Hon. Robt. MacKay, J. W. McConnell, R. M. Ballantyne, O. W. Donner, A. H. Cook, K.C., J. T. Ross, H. B. Robinson and T. H. Saunders.
 Secretary: P. F. Brown.
 Treasurer: Samuel T. Mains.
 General Manager: P. O. Dwyer.
 Mine Manager: Andrew A. Miller.
 Overman: Wm. G. Heeley.

Examiners: J. J. Williams, M. Spencer, P. Murphy and E. Richards.
 Engineer: N. C. Pitcher.
 Master Mechanic: Jas. Burchell.
 Head Office: 1021 Transportation Building, Montreal, Que.
 Mine Office: Lovett, Alta.
 Location of Mine: Secs. 3 and 10, Tp. 47, Rge. 19, W. 5th M.
 Area: 40,000 acres.
 Method of Ventilation: Sirocco forcing fan.

Three seams are being operated at this mine, 12 ft., 16 ft. and 16 ft. in thickness respectively. The strata is dipping at an inclination of 12 degrees. The mine is entered by means of a slope 8 ft. high by 11 ft. wide by 1,320 ft. long. A temporary tippie with a capacity of 500 tons per day of eight hours has been installed, also a wash-house and lamp-house. A 50 k. w. direct current generator has also been installed.

The Capital Coal Company, Limited.

Authorized Capital: \$50,000.00.
 President: J. B. Dube.
 Vice-President: P. Gervais.
 Directors: J. B. Dube, P. Gervais and E. Gervais.
 Secretary-Treasurer: J. S. Ballantyne.
 General Manager: J. B. Dube.
 Overman: Robt. Dunsmore.
 Engineer: E. Gervais.
 Head Office: 342 Tegler Building, Edmonton, Alta.
 Mine Office: Cardiff, Alta.
 Location of Mine: S. W. $\frac{1}{4}$ Sec. 24, Tp. 55, Rge. 25, W. 4th M.
 Area: 160 acres.
 Method of Ventilation: Natural.

The average thickness of the seam at this mine is 8 ft. and is lying at a depth of 46 ft. from the surface. The mine is entered by means of a shaft 8 ft. long by 7 ft. wide. Main entries are driven 9 ft. wide by 8 ft. high and rooms 14 ft. wide by 8 ft. high, pillars being left 30 ft. by 30 ft. No improvements have been made during the year.

Tofield Coal Company, Limited.

Authorized Capital: \$250,000.00.
 President: Robt. Lee.
 Vice-President: W. J. Crafts.
 Directors: Robt. Lee, W. J. Crafts and Claude Gallinger.
 Secretary-Treasurer: Claude Gallinger.
 Engineer: Wm. J. Morton.
 Head Office: 236 Jasper Avenue East, Edmonton, Alta.
 Mine Office: Toffield, Alta.
 Location of Mine: Sec. 26, Tp. 50, Rge. 19, W. 4th M.

The coal seam is worked by means of the stripping process. The seam is about 8 ft. in thickness with a cover of 12 ft. over it. A branch line has been built from the main line of the Grand Trunk Pacific Railway into the coal face, the coal is being loaded direct into the railway cars.

Canadian Coal & Coke Company, Limited. (St. Albert Colliery)

President: H. A. Lovett, K.C.
 Vice-President: Hon. Robt. MacKay.
 Directors: Hon. N. Curry, H. A. Lovett, K.C., Hon. Robt. MacKay, O. W. Donner, A. H. Cook, K.C., T. H. Saunders, J. T. Ross, Hon. W.

B. Ross, J. W. McConnell, H. B. Robinson and R. M. Ballantyne.
 Secretary: P. F. Brown.
 Treasurer: S. T. Mains.
 General Manager: P. O. Dwyer.
 Mine Manager: T. O'Donnell.
 Overman: A. McKay.
 Engineer: Colin McGillvary.
 Head Office: 1020 Transportation Building, Montreal, Que.
 Mine Office: St. Albert, Alta.
 Location of Mine: Sec. 28, Tp. 53, Rge. 25, W. 4th M.
 Area: 2,000 acres.
 Method of Ventilation: Forcing fan.

The coal seam which is lying at a depth of 320 ft. from the surface is 7 ft. in thickness. The mine is entered by means of a circular shaft lined with concrete. No improvements of any importance have been made during the year. It is expected that within the next few months, a second shaft will be commenced on this property.

Jasper Park Collieries, Limited.

Authorized Capital: \$2,500,000.00.
 President: J. L. Washburn.
 Vice-President: J. L. Cote.
 Directors: J. L. Washburn, M. H. Alworth, E. B. Hawkins, J. L. Cote,
 Chas. A. Duncan, D. W. McDonald, R. H. Morris.
 Secretary: Sidney Grimble.
 Treasurer: R. J. Maxwell.
 Managing Director: J. L. Washburn.
 General Manager: R. H. Morris.
 Mine Manager: A. N. Scott.
 Overmen: T. Shaw, Charles Chestnut.
 Examiners: J. James, J. Brown and H. Blake.
 Engineer: E. P. Elliott.
 Master Mechanic: Alex. McDonald.
 Head Office: Duluth, Minn. U.S.A.
 Mine Office: Pocahontas, Alta.
 Location of Mine: Sec. 6, Tp. 49, Rge. 27, W. 5th M.
 Area: 8,000 acres.
 Method of Ventilation: Exhausting and forcing fans.

The seam at this mine varies from 6 ft. 10 ins. to 8 ft. 6 ins. in thickness and is dipping at an inclination of 56 degrees. Haulage is done by means of compressed air locomotives. A mine has been opened on the south side of the river on the main line of the Canadian Northern Railway but owing to the lack of transportation facilities, it has not been developed to any extent.

Mountain Park Coal Company, Limited.

Authorized Capital: \$2,500,000.00.
 President: C. J. Leyland.
 Directors: R. W. Jones, G. R. F. Kirkpatrick, J. C. C. Bremner, N. M. Thornton, D. McCowan, Alex. M. Mitchell.
 Secretary: E. M. Anderson.
 General Manager: N. M. Thornton.
 Mine Manager: Thomas Mather.
 Overman: Wm. Eccleston.
 Examiners: W. James, J. Mather, C. Ferguson, H. Crowder, A. J. Brown, W. Ashton.
 Engineer: R. H. Watson.
 Master Mechanic: W. T. Henry.
 Head Office: 301 Tegler Building, Edmonton, Alta.
 Mine Office: Mountain Park, Alta.

Location of Mine: Sec. 33, Tp. 45, Rge. 23, W. 5th M.
Method of Ventilation: Walker fan.

Two seams are being operated at this mine, No. 1 seam having an average thickness of 4 ft. and No. 3 seam an average thickness of 20 ft. The measures are dipping at an inclination of about 15 degrees. Safety lamps of the Wolf type are installed throughout the mine.

The Dobell Coal Company, of Tofield, Limited.

Authorized Capital: \$100,000.00.
President: W. M. Dobell.
Vice-President: A. E. Doucet.
Directors: W. M. Macpherson, L. Evans, R. Reid Dobell, T. R. Henderson.
Secretary-Treasurer: F. O. Judge.
General Manager: T. R. Henderson.
Head Office: 138 St. Peter Street, Quebec.
Mine Office: P. O. Box 140, Tofield, Alta.
Location of Mine: Sec. 35, Tp. 50, Rge. 19, W. 4th M.

The coal seam which is about 6 ft. in thickness with about 12 ft. of cover over it is worked by means of stripping the cover by steam shovels. The coal is then loaded direct into the railway cars.

The Gainford Collieries, Limited.

Authorized Capital: \$1,200,000.00.
President: Hon. Sir Douglas C. Cameron.
Vice-President: D. R. Fraser.
Directors: Hon. Sir D. C. Cameron, D. R. Fraser, John Cameron and D. J. McNamara.
Secretary: F. L. Christie.
Treasurer: John Cameron.
Mine Manager: Leonard C. Stevens.
Examiner: R. Rawlinson.
Master Mechanic: J. A. Clark.
Head Office: 208 C. P. R. Building, Edmonton, Alta.
Mine Office: Gainford, Alta.
Location of Mine: Sec. 14, Tp. 53, Rge. 6, W. 5th M.

No improvements of any importance have been made at this mine during the past year and at present the mine is not in operation.

The coal seam is 8 ft. in thickness and is lying at a depth of 135 ft. from the surface. The mine is entered by means of a shaft 16 ft. long by 12 ft. wide.

Frank Smith.

Location of Mine: Sec. 8, Tp. 55, Rge. 24, W. 4th M.
Area: 10 acres.
Method of Ventilation: Natural.

The coal seam at this mine is 5 ft. 8 ins. in thickness and is lying at a depth of 48 ft. from the surface. This mine is operated on a small scale.

Sturgeon Coal Company, Limited.

Authorized Capital: \$50,000.00.
President: W. E. Rose.
Directors: J. Latimer, T. G. McPherson, Alex. Duthie.

Consulting Engineer: Norman Fraser.
 Overman: Alex. Duthie.
 Head Office: 10355 108th Street, Edmonton, Alta.
 Mine Office: Namao, Alta.
 Location of Mine: S. E. $\frac{1}{4}$ Sec. 8, Tp. 55, Rge. 24, W. 4th M.
 Area: 60 acres.
 Method of Ventilation: Natural.

The coal seam is 4 ft. 10 ins. in thickness and is lying at a depth of 80 ft. from the surface. The mine is entered by a shaft 6 ft. long by 14 ft. wide.

New Era Coal Company.

Location of Mine: Sec. 14, Tp. 53, Rge. 4, W. 5th M.
 There has been no work done at this mine during the year.

The Wabamun Power & Coal Company, Limited.

Authorized Capital: \$500,000.00.
 President: E. W. Day.
 Vice-President: Geo. Harcourt.
 Directors: W. C. Dunn, E. W. Day, Geo. Harcourt, J. A. Shaw, W. Ramsey, J. W. Bell, W. Fowler.
 Secretary-Treasurer: W. C. Dunn.
 Overman: A. E. Powell.
 Engineer: F. B. Smith.
 Head Office: 324 Tegler Building, Edmonton, Alta.
 Mine Office: Wabamun, Alta.
 Location of Mine: Sec. 9, Tp. 53, Rge. 4, W. 5th M.

Practically no work of any importance has been done during the year.

MINE RESCUE STATIONS.

There are now five Mine Rescue Stations in operation including Mine Rescue Cars; one of these stations is at Hardieville, one at Coalhurst and one at Taber and a sub-station at Commerce. Mine Rescue Car No. 1 operates in the Crow's Nest Pass between Burmis and Coleman and Mine Rescue Car No. 2 operates between Bankhead, Canmore and Georgetown.

The Lethbridge and Taber stations are under the supervision of Mr. Duncan McDonald; Mine Rescue Car No. 1 is under the supervision of Mr. Henry James and Mine Rescue Car No. 2 is under the supervision of Mr. William B. Powell. These stations and cars are fully equipped with Proto and Salvator types of apparatus.

Hardieville Mine Rescue Station is equipped as follows:

- 5 Apparatus of Proto type.
- 5 Apparatus of Salvator type.
- 1 Compression pump.
- 1 Draeger pulmotor.
- 2 Inhalation apparatus.
- 1 Animal tester.
- 6 Electric lamps.
- 1 Rectifier for re-charging electric lamps.
- 1 Meter for testing reducing valves.
- 13 Oxygen storage cylinders. (100 cubic feet capacity).
- 6 Heat helmets.
- 1 First aid cabinet.

1 Valeda stretcher.
 1737 Pounds stick caustic soda.
 3157 Pounds lump caustic soda.

Coalhurst Mine Rescue Station:

5 Apparatus of Proto type.
 1 Compression pump.
 1 Draeger pulmotor.
 6 Electric hand lamps.
 1 Rectifier for re-charging lamps.
 1 Meter for testing reducing valves.
 13 Oxygen storage cylinders. (100 cubic feet capacity).
 6 Heat helmets.
 1 Valeda stretcher.
 1200 Pounds stick caustic soda.
 2012 Pounds lump caustic soda.

Taber Mine Rescue Station:

2 Apparatus of Proto type.
 3 Apparatus of Salvator type.
 1 Compression pump.
 6 Electric hand lamps.
 1 Draeger Pulmotor.
 6 Oxygen storage cylinders. (100 cubic feet capacity).
 1 Ordinary stretcher.
 600 Pounds lump caustic soda.

Each station is also fully equipped for rendering first aid to the injured.

The schedule of training at each station is as follows:

First Schedule:

Explanation of the apparatus by the superintendent.

Demonstration of the pulmotor and inhalation apparatus, compression pump, animal tester and the taking apart and re-assembling of the apparatus.

Second Schedule:

Each member of team to wear apparatus one hour in fresh air, and one hour in smoke room in a vitiated atmosphere, making five trips through a tunnel 35 ft. in length by 18 ins. by 24 ins.

Third Schedule:

Wear apparatus two hours in smoke room in a vitiated atmosphere.

Fourth Schedule:

Wear apparatus two hours in smoke room, making ten trips through the tunnel.

Each member of the team to cut and set up a number of props and to move 1,000 pounds of rock a distance of 30 ft., build three wooden cogs inside tunnel and construct a brick stopping 6 ft. by 6 ft. in a temperature of from 90 to 100 degrees F.

Fifth Schedule:

Wear apparatus for two hours and apply Salvator to supposed unconscious man underground and to transport him by stretcher a distance of one mile. The members of the team to apply pulmotor to each other and to make a trip of half a mile underground.

Sixth Schedule:

Wear apparatus two hours and transport a weight of 180 pounds on a stretcher up an inclination of 1 in 7 and 1,000 yards long, construct a brick stopping 6 ft. by 6 ft. with a regulator 24 ins. by 24 ins. placed in the centre of it in the smoke room and to practise the transportation of injured persons.

Each member of the team has to dismantle and assemble the apparatus and re-charge the small cylinders each day of training.

The schedule of training is for six days and each team has to take one day's training at least every three months. Six months from the date of the first training each team is brought together again when they are given a thorough examination. after which, those who are found to be satisfactory are granted Mine Rescue Certificates.

Progress has been made with first aid work, all the trained mine rescue crews taking an active part in this work.

The full equipment from the Coalhurst Mine Rescue Station was transferred to the Chinook Coal Company's mine at Commerce in the month of June. Mine rescue training was continued at this point with good results, all the available employees at this mine taking advantage of the training.

The number of men trained in mine rescue work in the Lethbridge district is as follows:

Hardieville Station	70
Coalhurst Station	35
Commerce Station	15
Taber Station	30

The work of training has been carried on in a satisfactory manner, and I am pleased to report that no accidents have occurred in connection with it. The management of the different mines have given this work their utmost support.

On the 19th day of June, 1914, a call was made on the Lethbridge stations for assistance in connection with the Hillcrest disaster. In response to this call the mine rescue crews from Hardieville and Coalhurst with the full equipment from these stations travelled by special train to Hillcrest, arriving there at 4 p. m.

These mine rescue crews did excellent work in the recovery of the bodies of the victims and in extinguishing underground fires and remained at the scene of the accident from 3 to 6 days.

MINE RESCUE CAR NO. 1.

This car is fully equipped for mine rescue training and is divided into lecture room, office, kitchen and toilet and has six standard berths for sleeping quarters for mine rescue crews. The car may be heated either by means of a heater installed in the car or by means of steam supplied from the mine at which the car happens to be stationed. An electric lighting unit consisting of a gasoline engine direct connected to a 42 volt. generator and a storage battery of six cells is used in connection with the generator from which the current is taken to light the car and to charge the cells for the electric lamps used in connection with the mine rescue work.

This car has visited every mine in the Crow's Nest Pass, spending about one month at each mine. The previously trained teams at each mine have all been retrained thus keeping up the efficiency of the training. New mine rescue crews have also been trained at several of the mines.

The number of trained men in the Crow's Nest Pass is as follows:

McGillivray Creek Coal & Coke Co., Ltd.	18
International Coal & Coke Co., Ltd.	29
West Canadian Collieries, Ltd., Blairmore	18
Franco-Canadian Collieries, Ltd.	15
Hillcrest Collieries, Ltd.	12
West Canadian Collieries, Ltd., Bellevue	48
Leitch Collieries, Ltd.	12
Davenport Coal Co.	15

The equipment of Mine Rescue Car No. 1 is as follows:

11 Apparatus of Proto type.	
6 Apparatus of Salvator type.	
1 Oxygen compression pump.	
2 Draeger pulmotors.	
1 Oxygen reviving apparatus.	
1 Animal tester.	
18 Electric lamps.	
2 Valeda stretchers.	
1 Meter for testing reducing valves.	
21 Storage cylinders. (100 cubic feet capacity).	
1 First aid cabinet.	
1508 Pounds stick caustic soda.	
3480 Pounds lump caustic soda.	

The car is also supplied with all the spare parts necessary for replacing damaged apparatus and there is always kept on hand 2,000 cubic ft. of oxygen.

A call was also made for this car on the 19th of June at 9.30 a. m. in connection with the Hillcrest disaster. the car being at Blairmore at the time. The Canadian Pacific Railway Company supplied an engine which took the car to the scene of the accident, reaching Hillcrest at 9.50 a. m., about twenty minutes after the disaster occurred.

Mine rescue teams from Bellevue, Frank, Blairmore, Coleman, McGillivray, Passburg and Burmis also responded to the call.

Eight men who were overcome by the effects of the afterdamp were quickly revived by means of the pulmotor.

MINE RESCUE CAR NO. 2.

This car was equipped in the month of June, 1914, and is a remodelled passenger coach obtained from the Canadian Pacific Railway Company. It is divided into lecture room, office, kitchen and toilet and has six standard berths furnished with everything necessary for sleeping quarters for the mine rescue crews.

The car may be either heated by means of a heater in the car or by means of steam supplied from the mine at which the car happens to be stationed.

An electric lighting unit has been installed consisting of one and a half horsepower gasoline engine direct connected to a 42 volt. generator.

A storage battery of six cells is used in connection with the generator from which the current is taken to light the car and to charge the lamps used in connection with mine rescue work.

The car which was put into operation about the beginning of June at Bankhead mines remained there for four months for training purposes, after which it visited Canmore and Georgetown mines. Mine rescue crews have now been fully organized at each of these mines. The equipment of this car is as follows:

- 11 Apparatus of Proto type.
- 2 Draeger pulmotors.
- 1 Oxygen reviving apparatus.
- 2 Oxygen compression pumps.
- 10 Oxygen storage cylinders. (150 cubic feet capacity).
- 1 Animal tester.
- 1 Meter for testing reducing valves.
- 6 Electric hand lamps.
- 12 Electric head lamps.
- 6 Smoke helmets.
- 1 First aid cabinet.
- 2 Valeda stretchers.
- 1 Large tent, 12 ft.x14 ft. and 4 ft. walls.
- 940 Pounds stick caustic soda.
- 3140 Pounds lump caustic soda.

There is also a large supply of spare parts kept, together with 2,000 cubic ft. of oxygen.

The number of employees who have undergone training at the mines which the No. 2 car has visited is as follows:

Canadian Pacific Railway Co., Dept. of Natural Resources, Bankhead	15
The Canmore Coal Co., Ltd.	5
Georgetown Collieries, Ltd.	5

I am pleased to report that no accidents have occurred in connection with the use of the apparatus.

Tests of the most strenuous nature have been made during the year. The work accomplished at the Hillcrest disaster proved the efficiency of the apparatus.

The training schedules are revised from time to time so as to have all the crews trained as efficiently as possible.

MINE RESCUE CERTIFICATES ISSUED BY THE GOVERNMENT OF THE PROVINCE OF ALBERTA PREVIOUS TO 1914.

NAME.	OCCUPATION.	EMPLOYED BY	CERT. NO.	STATION.
Allen, William C.	Examiner	International Coal & Coke Company, Ltd.	2	Crow's Nest Pass.
Aspinall, Francis	Dist. Insp. of Mines	Government of Alberta	8	Crow's Nest Pass.
Buck, John	Miner	Canadian Pacific Railway, Lethbridge.	16	Lethbridge.
Baird, Thomas	Timberman	Canadian Pacific Railway, Lethbridge.	30	Lethbridge.
Beres, Alexander	Pipe Helper	Canadian Pacific Railway, Lethbridge.	39	Lethbridge.
Blasco, Frank	Miner	Canadian Pacific Railway, Lethbridge.	40	Lethbridge.
Coutts, George	Section Boss	Canadian Pacific Railway, Lethbridge.	12	Lethbridge.
Clark, Robert	Examiner	Canadian Pacific Railway, Lethbridge.	19	Lethbridge.
Crawford, William	Driver	Canadian Pacific Railway, Lethbridge.	24	Lethbridge.
Coutts, David	Miner	Canadian Pacific Railway, Lethbridge.	27	Lethbridge.
Chaplow, Joseph	Miner	Canadian Pacific Railway, Lethbridge.	41	Lethbridge.
Davies, David	Overman	International Coal & Coke Company, Ltd.	5	Crow's Nest Pass.
Draper, Robert	Examiner	Canadian Pacific Railway, Lethbridge.	25	Lethbridge.
Goldie, William	Timberman	Canadian Pacific Railway, Lethbridge.	31	Lethbridge.
Goldie, George	Timberman	Canadian Pacific Railway, Lethbridge.	32	Lethbridge.
Grant, Robert	Miner	Canadian Pacific Railway, Lethbridge.	34	Lethbridge.
Grant, John	Track Layer	Canadian Pacific Railway, Lethbridge.	35	Lethbridge.
Gallagher, Michael	Miner	Canadian Pacific Railway, Lethbridge.	46	Lethbridge.
Hargreaves, George	Cager	Canadian Pacific Railway, Lethbridge.	26	Lethbridge.
Jones, Samuel A.	Dist. Insp. of Mines	Government of Alberta	9	Lethbridge.
Kellock, George	Manager	McGillivray Creek Coal & Coke Company, Ltd.	3	Crow's Nest Pass.
Kellett, Walton	Surveyor	Canadian Pacific Railway, Lethbridge.	23	Lethbridge.
Livingstone, Robert	Manager	Canadian Pacific Railway, Lethbridge.	10	Lethbridge.
Livingstone, John	Overman	Canadian Pacific Railway, Lethbridge.	22	Lethbridge.
Larson, John	Machine-man	Canadian Pacific Railway, Lethbridge.	47	Lethbridge.
Morrison, Malcolm	Examiner	International Coal & Coke Company, Ltd.	4	Crow's Nest Pass.

MINE RESCUE CERTIFICATES ISSUED BY THE GOVERNMENT OF THE PROVINCE OF ALBERTA PREVIOUS TO 1914.—Continued.

NAME.	OCCUPATION.	EMPLOYED BY	CERT. NO.	STATION.
Millar, Joseph	Section Boss	Canadian Pacific Railway, Lethbridge.....	20	Lethbridge.
Makeranko, Steven A.	Rollerman	Canadian Pacific Railway, Lethbridge.....	36	Lethbridge.
Muir, Alexander	Tool Boss	Canadian Pacific Railway, Lethbridge.....	38	Lethbridge.
Moore, James	Examiner	Canadian Pacific Railway, Lethbridge.....	43	Lethbridge.
Millar, Andrew A.	Mine Rescue Supt.	Government of Alberta	50	Crow's Nest Pass.
Macaulay, Donald A.	Surveyor	International Coal & Coke Company, Ltd.....	7	Crow's Nest Pass.
McGowan, James	Bratticeman	Canadian Pacific Railway, Lethbridge.....	15	Lethbridge.
McDonald, Duncan	Mine Rescue Supt.	Government of Alberta	51	Crow's Nest Pass.
Ontko, John	Timberman	Canadian Pacific Railway, Lethbridge.....	29	Lethbridge.
Park, William	Examiner	Canadian Pacific Railway, Lethbridge.....	18	Lethbridge.
Park, Alexander C.	Miner	Canadian Pacific Railway, Lethbridge.....	44	Lethbridge.
Powell, William B.	Mine Rescue Supt.	Government of Alberta	49	Lethbridge.
Raber, Mike	Driver Boss	Canadian Pacific Railway, Lethbridge.....	17	Lethbridge.
Ramsay, Peter M.	Examiner	Canadian Pacific Railway, Lethbridge.....	28	Lethbridge.
Stevenson, John	Overman	Canadian Pacific Railway, Lethbridge.....	11	Lethbridge.
Stevenson, Alexander	Pipe Fitter	Canadian Pacific Railway, Lethbridge.....	21	Lethbridge.
Steel, John W.	Machineman	Canadian Pacific Railway, Lethbridge.....	33	Lethbridge.
Stevenson, John A.	Pumpman	Canadian Pacific Railway, Lethbridge.....	37	Lethbridge.
Seaman, John	Miner	Canadian Pacific Railway, Lethbridge.....	42	Lethbridge.
Thompson, Joseph	Examiner	International Coal & Coke Company, Ltd.....	1	Crow's Nest Pass.
Taylor, George W.	Examiner	Canadian Pacific Railway, Lethbridge.....	45	Lethbridge.
Troman, Samuel	Miner	Canadian Pacific Railway, Lethbridge.....	48	Lethbridge.
Vaselenak, Mike	Bratticeman	Canadian Pacific Railway, Lethbridge.....	14	Lethbridge.
Watson, William	Overman	International Coal & Coke Company, Ltd.....	38	Crow's Nest Pass.
Walton, Joseph	Miner	Canadian Pacific Railway, Lethbridge.....	13	Lethbridge.

MINE RESCUE CERTIFICATES ISSUED BY THE GOVERNMENT OF THE PROVINCE OF ALBERTA DURING THE YEAR 1914.

NAME.	OCCUPATION.	EMPLOYED BY	CERT. NO.	STATION.
Allen, Peter	Examiner	McGillivray Creek Coal & Coke Company	61	M. Rescue Car No. 1.
Adams, Thomas H.	Miner	Canadian Coal & Coke Co., Ltd.	99	Lethbridge.
Bryan, John	Examiner	International Coal & Coke Company, Ltd.	54	M. Rescue Car No. 1.
Bobinex, John	Miner	Canadian Pacific Railway, Lethbridge.	58	Lethbridge.
Brearley, Garnett	Miner	Canadian Pacific Railway, Lethbridge.	69	Lethbridge.
Brisovi, David	Cager	Canadian Pacific Railway, Lethbridge.	82	Lethbridge.
Bedwell, Alfred	Machineman	Canadian Coal & Coke Co., Ltd.	95	Lethbridge.
Berford, Edward	Examiner	Canadian Pacific Railway, Lethbridge.	101	Lethbridge.
Bainbridge, James	Examiner	Canadian Coal & Coke Co., Ltd.	111	Lethbridge.
Bateman, Joseph Wm.	Miner	McGillivray Creek Coal & Coke Company, Ltd.	121	M. Rescue Car No. 1.
Carter, Benjamin	Machineman	Canadian Coal & Coke Co., Ltd.	79	Lethbridge.
Campbell, Archi	Miner	Canadian Pacific Railway, Lethbridge.	83	Lethbridge.
Connors, Robert	Miner	Canadian Coal & Coke Co., Ltd.	107	Lethbridge.
Cox, John	Examiner	International Coal & Coke Company, Ltd.	126	M. Rescue Car No. 1.
Coupland, Edward	Examiner	West Canadian Collieries, Ltd.	130	M. Rescue Car No. 1.
Devoy, William	Miner	Canadian Pacific Railway, Lethbridge.	68	Lethbridge.
Davey, George	Timberman	Canadian Coal & Coke Co., Ltd.	109	Lethbridge.
Dewar, Alex.	Miner	McGillivray Creek Coal & Coke Company, Ltd.	137	M. Rescue Car No. 1.
Davidson, David	Overman	West Canadian Collieries, Ltd.	142	M. Rescue Car No. 1.
Evans, Hugh	Examiner	Canadian Coal & Coke Co., Ltd.	93	Lethbridge.
Evans, Nathaniel	Miner	Leitch Collieries, Ltd.	145	M. Rescue Car No. 1.
Fornos, George	Tripman	Canadian Pacific Railway, Lethbridge.	86	Lethbridge.
Gate, Henry	Examiner	Leitch Collieries, Ltd.	64	M. Rescue Car No. 1.
Grant, John	Miner	Canadian Pacific Railway, Lethbridge.	66	Lethbridge.
Greenhagh, R. M.	Miner	International Coal & Coke Company, Ltd.	144	M. Rescue Car No. 1.
Hunter, Alex. Burton	Examiner	McGillivray Creek Coal & Coke Company, Ltd.	59	M. Rescue Car No. 1.
Harries, Cecil	Examiner	McGillivray Creek Coal & Coke Company, Ltd.	63	M. Rescue Car No. 1.
Hulme, Chas.	Section Boss	Canadian Coal & Coke Co., Ltd.	75	Lethbridge.
Hackman, Thos.	Driver	Canadian Pacific Railway, Lethbridge.	102	Lethbridge.
Hutchison, Peter	Examiner	Canadian Coal & Coke Co., Ltd.	104	Lethbridge.
Hill, James	Examiner	Canadian Coal & Coke Co., Ltd.	105	Lethbridge.
Hopkins, Wm. George	Miner	McGillivray Creek Coal & Coke Company, Ltd.	119	M. Rescue Car No. 1.

DEPARTMENT OF PUBLIC WORKS.

MINE RESCUE CERTIFICATES ISSUED BY THE GOVERNMENT OF THE PROVINCE OF ALBERTA DURING THE YEAR 1914.—Continued.

NAME.	OCCUPATION.	EMPLOYED BY	CERT. NO.	STATION.
Hilling, James	Miner	McGillivray Creek Coal & Coke Company, Ltd.	124	M. Rescue Car No. 1.
Hyslop, David	Miner	McGillivray Creek Coal & Coke Company, Ltd.	125	M. Rescue Car No. 1.
Hutton, David T.	Examiner	West Canadian Collieries, Ltd.	131	M. Rescue Car No. 1.
Hallworth, Albert	Overman	West Canadian Collieries, Ltd.	140	M. Rescue Car No. 1.
Howell, Nathaniel	Overman	Leitch Collieries, Ltd.	146	M. Rescue Car No. 1.
James, Henry	Examiner	International Coal & Coke Company, Ltd.	92	M. Rescue Car No. 1.
Jackson, John	Examiner	West Canadian Collieries, Ltd.	133	M. Rescue Car No. 1.
Kelly, Patrick	Miner	Canadian Coal & Coke Co., Ltd.	106	Lethbridge.
Keith, John D.	Overman	Canadian Coal & Coke Co., Ltd.	115	Lethbridge.
Moore, Lewis	Sec. U. M. W. of A.	United Mine Workers of America	67	Lethbridge.
Metelski, Fred	Machineman	Canadian Coal & Coke Co., Ltd.	71	Lethbridge.
Main, David	Driver Boss	Canadian Pacific Railway, Lethbridge.	84	Lethbridge.
Morgan, Manuel E.	Timberman	Canadian Coal & Coke Co., Ltd.	98	Lethbridge.
Melling, Peter	Examiner	Canadian Coal & Coke Co., Ltd.	100	Lethbridge.
Morley, Samson	Trackman	Canadian Coal & Coke Co., Ltd.	110	Lethbridge.
Maxwell, William	Mine Supt.	Canadian Coal & Coke Co., Ltd.	116	Lethbridge.
Mason, Samuel	Examiner	West Canadian Collieries, Ltd.	138	M. Rescue Car No. 1.
McAuley, Angus Gillis	Mining Engineer	McGillivray Creek Coal & Coke Company, Ltd.	60	M. Rescue Car No. 1.
McCully, Joseph	Tipple Boss	Canadian Pacific Railway, Lethbridge.	65	Lethbridge.
McDonald, Wm. C.	Examiner	Canadian Coal & Coke Co., Ltd.	80	Lethbridge.
McMillan, Wm.	Examiner	Canadian Pacific Railway, Lethbridge.	89	Lethbridge.
McMillan, Donald	Examiner	West Canadian Collieries, Ltd.	123	M. Rescue Car No. 1.
McDonald, Noble Moore	Examiner	West Canadian Collieries, Ltd.	127	M. Rescue Car No. 1.
McDonald, Hector S.	Examiner	West Canadian Collieries, Ltd.	128	M. Rescue Car No. 1.
McGough, Joseph	Examiner	West Canadian Collieries, Ltd.	129	M. Rescue Car No. 1.
McVey, William	Examiner	West Canadian Collieries, Ltd.	139	M. Rescue Car No. 1.
O'Donnell, Thomas	Manager	Canadian Coal & Coke Co., Ltd.	57	Lethbridge.
Pinchek, Steve	Driver	Canadian Pacific Railway, Lethbridge.	53	Lethbridge.
Parry, Thomas	Examiner	McGillivray Creek Coal & Coke Company, Ltd.	62	M. Rescue Car No. 1.
Peacock, Charles	Machineman	Canadian Coal & Coke Co., Ltd.	72	Lethbridge.
Parks, John T.	Examiner	Canadian Pacific Railway, Lethbridge.	85	Lethbridge.

MINE RESCUE CERTIFICATES ISSUED BY THE GOVERNMENT OF THE PROVINCE OF ALBERTA DURING THE YEAR 1914.—Continued.

NAME.	OCCUPATION.	EMPLOYED BY	CERT. NO.	STATION.
Pelchek, Frank	Gripper	Canadian Pacific Railway, Lethbridge.	88	Lethbridge.
Pearson, Thomas	Miner	Canadian Coal & Coke Co., Ltd.	112	Lethbridge.
Pitcher, Norman C.	Engineer	Canadian Coal & Coke Co., Ltd.	114	Lethbridge.
Purdy, Sterns Johnson	Examiner	West Canadian Collieries, Ltd.	141	M. Rescue Car No. 1.
Picton, William	Examiner	Leitch Collieries, Ltd.	143	M. Rescue Car No. 1.
Petros, Matt.	Driver	Canadian Pacific Railway, Lethbridge.	70	Lethbridge.
Queen, Andrew	Overman	Canadian Pacific Railway, Lethbridge.	96	Lethbridge.
Quigley, Daniel	Examiner	Canadian Coal & Coke Co., Ltd.	96	Lethbridge.
Rerden, Robert	Blacksmith	Canadian Pacific Railway, Lethbridge.	87	Lethbridge.
Rae, John	Examiner	Canadian Pacific Railway, Lethbridge.	103	Lethbridge.
Richardson, Matthew	Mechanic	Canadian Coal & Coke Co., Ltd.	113	Lethbridge.
Russell, James	Bratticeman	Canadian Pacific Railway, Lethbridge.	118	Lethbridge.
Radford, James	Examiner	West Canadian Collieries, Ltd.	132	M. Rescue Car No. 1.
Roberts, Ebenezer	Examiner	West Canadian Collieries, Ltd.	134	M. Rescue Car No. 1.
Roberts, John	Overman	West Canadian Collieries, Ltd.	135	M. Rescue Car No. 1.
Stanco, Mike	Miner	Canadian Pacific Railway, Lethbridge.	52	Lethbridge.
Scott, John	Timberman	Canadian Coal & Coke Co., Ltd.	74	Lethbridge.
Stobbs, Joseph	Examiner	Canadian Coal & Coke Co., Ltd.	76	Lethbridge.
Sprout, Anthony	Machineman	Canadian Coal & Coke Co., Ltd.	78	Lethbridge.
Soupok, John	Driver	Canadian Coal & Coke Co., Ltd.	94	Lethbridge.
Scott, Alex.	Examiner	McGillivray Creek Coal & Coke Co., Ltd.	122	M. Rescue Car No. 1.
Teasdale, Thomas	Miner	Canadian Pacific Railway, Lethbridge.	81	Lethbridge.
Thomas, Isaac	Examiner	International Coal & Coke Company, Ltd.	91	M. Rescue Car No. 1.
Vair, Walter	Machineman	Canadian Coal & Coke Co., Ltd.	77	Lethbridge.
Whitall, Richard	Miner	Canadian Pacific Railway, Lethbridge.	55	Lethbridge.
Worthington, Thomas	Miner	Canadian Pacific Railway, Lethbridge.	56	Lethbridge.
Williams, Eben	Timberman	Canadian Coal & Coke Co., Ltd.	73	Lethbridge.
Walker, James	Miner	Canadian Coal & Coke Co., Ltd.	97	Lethbridge.
Whitefield, Isaac	Examiner	Canadian Coal & Coke Co., Ltd.	108	Lethbridge.
Walker, Charles	Tipple Boss	Canadian Pacific Railway, Lethbridge.	117	Lethbridge.
White, William	Miner	International Coal & Coke Company, Ltd.	120	M. Rescue Car No. 1.
Williams, John T.	Examiner	West Canadian Collieries, Ltd.	136	M. Rescue Car No. 1.

ACCIDENTS.

There were twenty fatal accidents during the past year in addition to the explosion which occurred on June 19th at the mines operated by the Hillcrest Collieries, Ltd., at Hillcrest, whereby 189 persons lost their lives.

The fatal accident which occurred to Antoni Osadehuck on January 13th in the No. 6 mine operated by the Department of Natural Resources of the Canadian Pacific Railway Company near Lethbridge occurred while Osadehuck was acting as driver. The deceased was taking a trip of five empty cars into the first butt entry north-east and when found was sitting on the front end of the trip. It appears that the two front cars of the trip became derailed while going round a curve and deceased was crushed between the front end of the first car and the rib side. His instructions were to use two sprags but he had apparently been trying to go around this curve which is a slight down grade without sprags.

The fatal accident which occurred to Andrew Hood on January 29th at the mine operated by the Durham Collieries, Ltd., was caused by a fall of roof. Hood was working in a place about 4 ft. square and had neglected to set timber to support the roof with the result that a fall of roof took place.

The fatal accident which occurred to J. A. Shelton on January 29th in the mine operated by the Vulcan Coal Co., Ltd., was caused by a fall of roof. This place was timbered up to within 3 ft. of the coal face and the fall took place between the inside timber and the coal face.

The fatal accident which occurred to Mike Knish on February 2nd in the mine operated by the McGillivray Creek Coal & Coke Co., Ltd., near Coleman, was caused by a piece of coal which fell and struck deceased on the head, causing almost instantaneous death.

The fatal accident which occurred to W. Bailey on March 4th in the mine operated by the Brazeau Collieries, Ltd., near Nordegg, was caused by deceased while trying to stop a trip of seven loaded cars, stepping in front of the cars and having his foot caught between the car and tie. He was thrown under the first car which ran over him, killing him instantaneously.

The fatal accident which occurred to Martin Foresak on May 21st in the mine operated by the Drumheller Coal Co., Ltd., was caused by the effects of a shot. It appears that Foresak, without a light had gone into a crosscut which was fenced off; a place was being driven towards this crosscut and was at the point of being broken through. A shot was prepared in this place and before firing the shot, the shotlighter placed a person at the entrance to the crosscut, but as no light was seen in the crosscut he apparently thought that everything was clear and gave the signal to fire the shot. The shot was fired with the result that Foresak was killed by the flying coal from this shot.

The fatal accident which occurred to Peter White on June 8th in the mine operated by the Jasper Park Collieries, Ltd., near Poca-hontas, was caused by deceased being crushed in a chute. The chute was blocked with coal about 6 ft. above the bulkhead and

deceased climbed into the chute to start the coal with the result that a sudden rush occurred and crushed him against the bulkhead, causing death.

The fatal accidents which occurred on July 27th in the mine operated by the West Canadian Collieries, Ltd., near Bellevue, whereby M. Flosatte and L. Augustine lost their lives, were caused by a fall of top coal. It appears that the shotlighter fired a shot and informed Flosatte and Augustine that the place was safe for them to go and work in. The two men returned to the place and while dressing off the rib side where the shot had been fired, a fall of top coal took place, killing them instantaneously. I am of the opinion that the examiner did not examine this place properly as he stood about 30 ft. away from where the shot was fired when he was supposed to be examining it.

The fatal accident which occurred on September 3rd to Felix Mulgium in the mine operated by the Canadian Coal & Coke Co., Ltd., near Coalhurst, was caused by Mulgium being caught by a car. Two mine cars loaded with timber were being run from the cage along a downgrade and apparently had run past the usual stopping place and down the empty haulage road. Mulgium who was riding on a car which was being pulled by a horse, which he was riding, jumped off the car when he heard the noise of the cars behind him and when one of the cars passed him he got back on to the road again apparently not knowing that a second car was following.

The fatal accident which occurred to J. W. Bateman on September 16th in the mine operated by the McGillivray Creek Coal & Coke Co., Ltd., near Coleman, was caused while Bateman was in the act of mining at the coal face when a piece of coal fell on him.

The fatal accident which occurred to Alexander K. Stewart on September 18th at the mine operated by R. W. K. Cousins, near Nevis, was caused by suffocation. Deceased descended a well which was used for supplying water to the boilers and when standing on a staging about 14 ft. from the top he complained that he was not feeling well but refused to come up when advised to do so. Shortly after this he was apparently overcome by blackdamp and fell into the bottom of the well and was dead before his body could be recovered.

The fatal accident which occurred to Paul Alauzen on September 30th in the mine operated by the McGillivray Creek Coal & Coke Co., Ltd., near Coleman, was caused while Alauzen was placing a board on the side of the chute. He had apparently erected a prop in a temporary manner and while he was working at the chute, this prop fell and struck him on the back of the neck.

The fatal accident which occurred to Andrew Klodnický on October 7th in the mine operated by the Yellowhead Pass Coal & Coke Co., Ltd., near Bickerdike, was caused by suffocation. Deceased was walking over the top of the chute in No. 2 room when the loose coal in the chute gave way and he fell down with a quantity of coal on the top of him. The coal had apparently got stuck in the chute and the effect of his weight overcame the obstruction.

The fatal accident which occurred to John Bielesch on November 3rd in the mine operated by the Department of Natural Resources of the Canadian Pacific Railway Company, near Bankhead, was

also caused by Bielesch falling down a chute. The deceased was working at a battery at the face of the chute when a prop which was supporting the battery fell out, thus causing the deceased to fall down the chute.

The fatal accidents which occurred on November 20th in the mine operated by the Hillcrest Collieries, Ltd., near Hillcrest, whereby Pacifico Cimetta and William Thomas lost their lives, was caused by a runaway trip of cars. The deceased persons were apparently riding on the trip when the rope broke with the result that the cars ran back down the incline and becoming derailed, crushed both men. Thomas was riding on this trip contrary to instructions.

The fatal accidents which occurred on November 25th at the mine operated by the Department of Natural Resources of the Canadian Pacific Railway Company, near Bankhead, whereby N. Morello and W. Packny lost their lives, was caused by a fall of roof. The deceased were mining coal in pillar No. 4 C. 3, south, when the roof and part of the pillar fell out, burying them. The body of Packny was recovered, but before the other body could be recovered a very large fall of roof took place with the result that it was impossible to locate this body.

The fatal accident which occurred to Frank Gregory on December 12 at the mine operated by the West Canadian Collieries, Ltd., near Bellevue, was caused by Gregory having his head crushed between a locomotive and the timbers on the side of the road. Gregory was acting as brakeman and was sitting beside the driver on the front end of the locomotive. He heard someone shout and in looking around put his head out with the result that he was knocked off the locomotive and was crushed against the side of the road.

The explosion which occurred on June 19th at the mine operated by the Hillcrest Collieries, Ltd., at Hillcrest, whereby 189 persons lost their lives was caused by an explosion of gas and coal dust. We have been unable to ascertain the cause of the explosion.

Judge A. A. Carpenter of the District Court at Calgary was appointed a commissioner under the authority of the Act Respecting Inquiries Concerning Public Matters, being Chapter 2 of the Statutes of Alberta, 1908, to conduct an investigation into the cause of this explosion and I herewith attach copy of his report.

All the bodies were recovered with the exception of one which is supposed to be under a very large cave in the upper workings of the mine.

Following is a copy of Judge Carpenter's report:

CALGARY, 20th October, 1914.

THE HONOURABLE CHARLES STEWART,
Minister of Public Works,
Edmonton, Alberta.

SIR,—

I have the honour to submit herewith, my report based upon the evidence taken at the inquiry into the Hillcrest Mine disaster, in pursuance of the power vested in me by the Commission bearing date the 24th day of June

A.D. 1914. I would ask you to be good enough to place the report before the Lieutenant Governor in Council.

The hearing of the evidence was begun by me on the 2nd day of July of this year and continued until the 11th day of that month inclusive. The very fullest opportunity was given to the public as well as to all parties interested, to give under oath any evidence or information they desired to give, and throughout the inquiry it was constantly intimated by me that no one who desired to give evidence, would be denied that opportunity, and further that if anyone could give the names of any parties whose evidence in their opinion, would be of any assistance to the Commission, upon the handing in of the names of such parties to the counsel appearing for the government, they would be at once summoned before the Commission and required to give evidence.

All the evidence available was taken, and what might be said to be a fairly thorough inspection of that part of the mine where the explosion was supposed to have occurred, was made by the Commission.

The report has been delayed owing to not having received the result of the tests of coal dust that were to be made by the United States Bureau of Mines, which tests it was agreed by counsel should be taken into consideration in making this report.

In addition to Mr. W. M. Campbell, K.C., who appeared on behalf of the government of the Province, Mr. Colin Macleod acted for the owners of the mine, Mr. J. R. Palmer for the Miners' Union, and Mr. A. J. Kappalle, of Vancouver, for the Royal Italian Consul, representing the Italian subjects who were among the victims of the disaster.

I am forwarding under separate cover the evidence taken at the inquiry, together with the various exhibits put in in evidence.

I have the honour to be, Sir,

Your obedient servant,

(Signed), A. A. CARPENTER,
Commissioner.

REPORT OF THE COMMISSION APPOINTED FOR THE INVESTIGATION AND ENQUIRY INTO THE CAUSE AND EFFECT OF THE HILLCREST MINE DISASTER.

The explosion in the mine of the Hillcrest Collieries, Limited, occurred, according to the evidence taken at the enquiry, at about 9.30 o'clock in the morning of the 19th of June this year. At the time of the explosion there were 235 employees of the company in the mine. Of these, 189 perished, the only ones saved being those in the northerly portion of the mine, in the workings of what is referred to as Number 1 North Level, where the effect of the explosion was but slightly felt.

The scope of this enquiry was by the terms of the Commission, to determine as far as possible the cause and effect of this disaster. To follow out the objects of the enquiry, the possible causes of an explosion in a mine of this kind have first to be considered. It is then necessary to arrive as far as possible at the actual condition of the mine immediately prior to the explosion both in regard to the ventilation of the mine, the presence of gas, the condition of the mine in regard to dust, and the character of that dust as regards explosiveness, and any other conditions that might give rise to or contribute to the cause of the explosion. It is also necessary to consider what care the officials of the mine had exercised prior to the explosion, both in the supervision of their employees and generally in the operation and working of the mine. Finally the nature and seat of the explosion, if possible, must be determined.

In general it may be said that with the exception of what is known as a blown-out shot, all mine explosions must originate with the ignition of gas. In the case of a blown-out shot, however, dust may be ignited directly, and given dust in sufficient quantities and of a sufficiently explosive char-

acter, an explosion may result, and a blown-out shot, may of course, result in ignition of the gas. Apart from this, the ignition of gas may be caused in a number of ways. An open flame such as from a match or a naked lamp, a defective safety lamp, the spark from a pick or tool, or the sparking of electric wires or motors may be said to be the most common causes of the ignition of gas in a mine. A fall of rock of such a character as will give off a spark upon falling, and which draws down with a pocket of gas may also cause this ignition. The mere ignition of gas however, doesn't necessarily lead to a mine explosion. A great deal will depend on the explosive character of the firedamp, and the condition of the mine air and workings in respect of gas, dust and moisture.

As regards the possibility of the Hillcrest explosion being originated by a blown-out shot, it is agreed by all the witnesses, that that cause may be eliminated in the present enquiry. All shots in the mine are fired by the examiner by means of an electric battery and cable, and the examiner who alone would have fired the shots in that portion of the mine where the explosion did occur was found with the firing cable wound around his body and the battery key in his pocket. The other examiner on duty in the mine was among those in the workings of Number 1 North Level, all of whom were saved.

In this mine no naked lights are allowed, the lamp in use being the Wolf safety lamp, and these lamps are examined by the examiner before being given out to the men, and were on the morning of the explosion examined by the two examiners on duty at that time. At the same time a safety lamp may become defective through improper handling, as for instance if it isn't held erect and comes in contact with the flame, the glass may break, or it may be broken by means of a pick or some tool or by a fall or rock. The probabilities are against a defective safety lamp being the origin of this explosion, but that possibility cannot be eliminated.

The lighting of a match is a cause which also cannot be eliminated. It is a contravention of The Mines Act for men to take matches, pipes or tobacco into a mine of this character, and the management of the mine have the right to search the men for such articles before they go down into the mine, but whether such a search was made or not in this case there is no evidence. Both in this case and in the case of a defective safety lamp the personal equation must largely come in, and it must be remembered that a case of carelessness or foolhardiness on the part of anyone employed in such a mine may result in an appalling disaster.

With regard to a fall of rock such as has been mentioned, obviously no conclusion can be arrived at. The rock formation in this mine is the same as at Bellevue, where some four years ago, a number of explosions, the origin of which was attributed to the sparking emitted upon such a fall, occurred. Evidence was given by two witnesses, (pages 57, 58 and 199 in the evidence) that they had seen a fall of rock cause sparks, some four years ago, in the old workings of this mine.

There is also evidence given as to the striking of sparks by a pick. Given a proper mixture of gas and air an ignition might follow from such a cause.

As to the sparking of electric wires or motors, there were three electric pumps in Number 2 slope, placed respectively one hundred and thirty feet, nine hundred feet and fifteen hundred feet down the slope and the cables for driving these pumps ran down this slope. The report of the electrician shows that the wires were properly insulated and whatever the effect might be from the danger of these cables and pumps, with the system of ventilation that apparently prevailed in this instance, there is no suggestion that the explosion originated in Number 2 slope and that cause of ignition may, I think, be eliminated.

The question of the ventilation of the mine is manifestly one of great importance to be considered in connection with this investigation. There is always a certain amount of gas being generated from the coal in a mine of this description, particularly from the working faces, and it is through the proper ventilation of the mine and the proper direction of the air currents, that this gas is carried off, freeing those working places from the undue presence of gas which otherwise would constitute a constant menace to the safety of the mine.

The exact details of the ventilation system of this mine were known only to the Mine Manager, Mr. Quigley, and the Overman, Mr. Taylor, and both of these officials were among the victims of the disaster. Under the provision of the Alberta Mines Act the mine operators are not required to keep in their office a plan of the ventilation system of the mine, our Act therein differing from the Coal Mines Act of Great Britain, which makes it obligatory upon the company to keep such a plan in its office. Consequently there was no plan kept of this ventilation system, and as a consequence of the death of these officials, the only evidence that was available in this regard was that of the surviving examiners. At the enquiry a plan of the mine was produced and upon it the examiners traced as nearly as they could the direction of the air currents in their respective districts. While the production of a plan of the ventilation system, as is required to be kept under the provisions of the British Act, would have beyond doubt been more satisfactory, I think on the whole, the evidence of the examiners presents a fairly accurate idea of the ventilation system of this mine.

By way of explanation, it may be said that there are two entrances to the Hillcrest Mine, one called the Rock Tunnel, leading to Number 1 slant or slope, and to the new slant, and the other, which is designated as Number 2 slope or slant. All the coal from the workings above, or rather east and south of Number 1 slant, is taken up through the Rock Tunnel and this part of the mine for the sake of convenience is referred to as Number 1 Mine, while the coal from all the other portions of the mine is taken up the Number 2 slant or slope, and these portions of the mine are, for the same reason, referred to as Number 2 Mine. In reality, however, all the workings are connected and comprise but one mine.

There were two fans employed in the ventilation of the mine. One, an electrically driven fan of the Sheldon-Sirocco type, placed a little to the south of the Rock Tunnel, acted as an exhaust fan, while the other, a steam driven fan, located a little to the north of the entrance to Number 2 slope, was used as a forcing fan. This latter fan, at the time of the accident, was forcing the air into the workings of that part of the mine known as Number 1 North Level. The return air from Number 1 North Level, apparently joined the intake air going down Number 2 slope. These combined currents travelled down this slope to Number 2 South Level, along the level to the face, returning back along the working faces of Number 2 South, to Room 31, and thence to the exhaust fan through an overcast over the new slant, after ventilating the working places of Number 1 South Level. Another current passed down Number 1 slant, returning along the counter, after having ventilated the places in the level off this slant, and the places above the slant where the pillars were being extracted. The current going through the Rock Tunnel to some extent split at the junction of the tunnel with Number 1 slant and the new slant, a portion travelling down the new slant as far as a stopping at about the second cross-cut in Room 31. That this current, however, did not play any important part in the ventilation of the mine may be judged by the fact that no measurement apparently was ever taken of the air passing down the new slant. The evidence was that a certain amount of this current leaked through this stopping into Room 31, and from these joined the air current ventilating the workings of Number 1 South Level.

The workings below Number 2 slope as far down as Number 3 South Level according to the plan marked by the examiners appear to have been ventilated, at least to some extent, by a split of the air current down Number 2 slope, but below Number 3 South Level, the workings were ventilated by means of compressed air and it was almost universally agreed, I think, that the use of compressed air for ventilation purposes in a mine of this character, was objectionable.

The turning of the return air current from Number 1 North Level, in with the intake current travelling down Number 2 slope and used to ventilate the balance of the workings of Number 2 mine, was severely criticized by Mr. Fraser, the expert witness for the miners and by others, owing to the fact that this would mean that air already vitiated through the ventilation of one portion of the mine, would be turned in to mix with the fresh current of air used to ventilate another part of the mine. It is true that there was an overcast crossing Number 2 slope, a little above the junction of this slope and Number 1 South Level, and had the return air from Number 1

North Level, been carried through this over cast to the surface no objection in regard to this part of the ventilation system could have been raised, and it was at least suggested by counsel for the Company, that this over cast was probably in use at the time of the explosion. The evidence however, I think, is clear, that this overcast was not being used at that time, and it seems to have been a fact that this return current from Number 1 North Level, did travel down Number 2 slope and from there along with the intake current down the slope through the other portion of the workings of Number 2 mine.

Measurements of the quantity of air taken into the mine at the different intakes are made once a week by the Overman, and the last of these measurements before the disaster, was taken on the 16th of June. On that day, these measurements show that 14,500 cubic feet of air per minute were being forced into the workings of Number 1 North Level, 24,000 cubic feet were being taken in down the Number 2 slope and 54,600 cubic feet were being drawn down Number 1 slant. The conclusion Mr. Fraser arrived at, seems to be that in taking the volume of air coming down Number 2 slope at 24,000 cubic feet, the Overman had included the return air from Number 1 North Level. I cannot come to this conclusion myself. To do so would, I think, be to impute a species of fraud to this official and a manifest attempt on his part to give a false idea of the ventilation of the mine. I do not think there is anything to warrant the adoption of such a view. It is apparent from the measurements that there was a sufficient quantity of air passing through the mine, to insure proper ventilation, provided the air was properly distributed.

By the Mines Act it is provided that every mine shall be divided into districts or splits of not more than seventy men in each district and each district shall be supplied with a separate current of fresh air. There was a very considerable difference of opinion as to the definition of the word "split." Mr. Fraser adopted the view that the term as used, has the same meaning as the term "ventilation district" used in the British Coal Mines Act, and, as to Number 2 mine, it was suggested by him that Number 1 North Level, and Number 2 South Level, were both on the same split. On the other hand Mr. Drinnan, the company's expert, was inclined to give a much wider, or at least a more vague, interpretation of the term, and, in his opinion, Number 1 North Level, and Number 2 South Level, comprised two distinct splits. Mr. Brown, the company's manager, was of much the same opinion, and I might say here that if the return current from Number 1 North Level, travelled through the over cast, over Number 2 slope, there would be no possible doubt but that there were two distinct districts or splits in Number 2 mine. I am distinctly under the impression, however, that at least the intention of the Alberta Act was that the term "district" or "split" should receive the same meaning as the term "ventilation district" in the British Coal Mines Act.

Assuming for the moment that there were two distinct splits in Number 2 mine, it still seems that there were considerably more men employed in these workings than the Act sanctions. It is to be regretted that the reports kept by the company do not give very definite information as to the number of men employed in the various parts of the mine. The explanation given was that the men, with the exception of the miners, are often moved from one part of the mine to another. This is quite conceivable, and is indeed undoubtedly the case, but without more definite track being kept of the whereabouts of the men than was apparently done here, it is difficult to see how the section of The Mines Act limiting the number of men in each district or split, can be observed.

The estimate of Mr. Fraser, as to the number of men employed in Number 2 mine, exclusive of Number 1 North Level, in view of the evidence, is, I think, excessive. It is impossible to fix exactly the number of men employed in Number 2 mine at the time of the disaster. The rescue parties, as may be readily conceived, paid little attention to the location where the bodies of the victims were found, and even the location of the bodies would not be conclusive in this regard, as there is little doubt but that many of the men, after the explosion, left their working places, in an attempt to escape, before they succumbed to the effect of the afterdamp.

According to the figures submitted by the company as showing the number of men checked into the mine, on the morning of the disaster, there

were fifty-nine men in Number 1 mine and one hundred and seventy-six in Number 2 mine. All of the men in Number 1 North Level, forty-six in number, were saved so that in the remaining portion of Number 2 mine the company's figures would show that there were one hundred and thirty men. The evidence bears out, however, the company's explanation that the men were moved about the mine after being sent into it, as while the figures show that there were three tracklayers in Number 2 mine, and none in Number 1 mine, the evidence is that one of these men was killed in Number 1 mine. Again while there is no strict evidence on the point, it appears that the number of buckers found in Number 1 mine was very considerably greater than the company's figures show. I think that possibly an extreme estimate of the men employed in Number 2 mine apart from Number 1 North Level, would be 120 and it was probably less. Assuming that there were 120 men there at the time of the disaster, it will be seen that the quantity of air coming down Number 2 slope would be at least sufficient to allow the required two hundred cubic feet per man that is required by the Act. It is true that this does not take into consideration the fact that there were some horses in the mine at the time, but neither, however, does it take into account the compressed air below Number 3 South Level, nor the air going down the new slant. On the other hand if Number 2 mine was all in one district or split, there would be considerably over the required 200 cubic feet per man. Upon the whole it appears that while the Act appears to have been violated so far as employing more than seventy men in a split or district, it is probable that there was a sufficient volume of air in this portion of the mine to allow the requisite amount per man as is required by the Act and the evidence does not warrant any finding that the noncompliance of the Act in this regard contributed to the explosion.

It may be taken for granted, I think, that both the ventilating fans were properly working up to the time of the accident. Any stoppage of the electrically driven fan would have been at once noticed by the man in charge of the switch board at the power house. So far as the evidence goes it doesn't seem that any notice had been given to the steam driven fan for about half an hour before the occurrence of the explosion. The working of this fan could be heard by the hoistman in the engine house, provided the window of the engine house was open, but the fan itself could not be seen from there. While there is nothing to suggest that this fan was not working at the time of the disaster, and the evidence all goes to show that it was, it does seem that closer oversight should have been kept upon this fan, when its stoppage might cut off the entire ventilation of one portion of the mine. The attachment of an automatic indicator to the fan would avoid any such danger.

In regard to the turning of the return air from Number 1 North Level down Number 2 slope, the weight of evidence I think, goes to show that the system of ventilation in this regard, if not absolutely objectionable, was at least not to be commended, but while this is so, there is nothing to show that this practice contributed any to the cause of the explosion. Neither can it be said that the use of compressed air in the workings of Number 2 slope below Number 3 South Level, is accountable in any way for the disaster. It was practically admitted, I think, that the explosion did not originate in this portion of the mine.

With regard to the operation of a hand fan in Number 1 North Level, and in Number 2 South Level opposite the raises, the evidence shows that the mine had not been working during the two days immediately prior to the day of the disaster, and the evidence of the Examiner, William Adlam, is to the effect that these raises were full of gas. The fan boys who operated the hand fan went into the mine at the same time as the miners, and consequently it is to be presumed that after the miners had begun work, if there were men working at the face of the entries, the gas from the raises would be driven over them and that such a practice is bad is admitted by a number of expert witnesses. So far as the question concerns Number 1 North Level, it is of no importance as there was no explosion in that part of the mine, and in regard to Number 2 South Level, it must be remembered the fan would start to expel the gas from the raise when the morning shift went on, that is at seven o'clock in the morning, and the explosion did not occur until two and a half hours afterwards. There is again nothing I think to show that the explosion originated at this point nor I think did any of

the witnesses so contend. And as to the general practice of using these fans, under such conditions, it must be said that Mr. Hudson, representative of the Dominion Department of Mines, and a man of wide experience in mining matters was unwilling to criticize their use.

It appears from the evidence, that while the system of ventilation in some details has, and, I think, with some reason been criticized by some of the witnesses giving evidence at the enquiry, so far as the men of the mine were concerned, there seems to have been only one opinion in regard to the ventilation and that was, that the ventilation was good so far as their own particular working places were concerned. There was apparently no complaint whatever by the men in that regard.

It is true that a month or more before the disaster the conditions were not so good. Evidence was given that travelling caps, that is the existence of such an amount of gas in the ventilating current as would show a flame in a test with a safety lamp, were found. But this condition was before the driving through of Room 31, and upon the completion of that work, this condition was remedied. Since that time, and up to the time of the disaster, there had been no complaints on the part of the men, nor had there been anything that would indicate any unsatisfactory condition in the ventilation of the mine. The report of the Pit Committee, representing the miners, made on the 18th of May, just a month before the disaster, sets out that they found the ventilation good and general conditions good, and the evidence is to the effect that between that time and the time of the disaster, there were no circumstances that would lead any one to believe that the condition of the mine had, in the meantime, undergone any change. Notwithstanding the fact therefore that the system of ventilation is, as I have said before, in a number of details open to criticism, the evidence does not warrant me, I think, in attributing the cause of the explosion, to any faulty ventilation of the mine.

The question of gas in the mine must be intimately connected with the question of ventilation. At the same time the presence of gas is not necessarily an indication of an inefficient system of ventilation. The accumulation of gas may arise from the fact that the brattices have not been led up sufficiently to the faces of the workings and consequently the air current is not conducted sufficiently near the faces so as to carry away the gas. And in a mine of this nature it may be said that generally there is always more or less gas.

In any mine where inflammable gas has been found within three months, an inspection of the roadways leading through the mine, and the working places must, under the provision of The Mines Act be made within three hours before each shift goes to work in the mine. During this inspection a test is made for gas, and the examiner makes a report as to the condition of the mine, such report being recorded in a book kept for that purpose and a copy of this report is posted up immediately in a conspicuous place at the mine. The last inspection of this nature, made before the explosion, was by the Examiner, William Adlam, who went into the mine about ten minutes to four and came out at twenty minutes past six o'clock on the morning that the disaster occurred. His report showed the presence of gas in working places, 2, 5, 12, 17, 7, 8 and 43. Of these places, 2, 12 and 17 are in the workings of Number 1 North Level, 7 and 8 in Number 3 South Level, and 5 and 43 in Number 2 South Level. The Examiner swears that in accordance with his duties in that regard he fenced off these places so that the miners would not go into them until the gas had been cleared out.

It is the custom for the brattice men, who attend to the placing of the brattices, so as to conduct the air current up to the working face and so clear those places of gas, to go into the mine a half hour or so before the shift goes in. The examiner or examiners on duty at that hour gives or give the orders based upon the report of the examiner who has just made his inspection. The lamps of the brattice men are examined by the examiners who have gone on duty, and in this case John Ironmonger swears that he examined the lamps of the brattice men when going into the mine. It is, I think, only fair to assume that the brattice men on this morning, went in as customary to attend to the fixing of the brattices so as to rid the mine of the gas indicated in the examiner's report. If the brattice men

attended to their duties, and it is only fair to assume they would do so, the mine with the exception of the raises, should have been speedily freed of gas.

I confess that the evidence of Adlam somewhat bewildered me in regard to the quantities of gas referred to in his report. My impression from his evidence given in the first instance was that there were comparatively only small quantities of gas in the places indicated in his report. Upon his being recalled his evidence gave me the impression that the quantities of gas were much greater than his evidence led me to believe in the first instance and I am somewhat at a loss to reconcile his different statements in this regard. Adopting his later statement, it is evident that the raise in Number 1 North Level, and the raise in Number 2 South Level, were, as he says, full of gas. With these raises full of gas it does seem that it would have been advisable that these places should have been cleared before the miners entered the mine. Such a course at least would have avoided an element of danger that had to exist if the raises were being cleared after the miners had gone to work. Notwithstanding, however, that the gas was in the quantities I have mentioned, Adlam says that he did not consider that there was an unusual amount of gas in the mine that morning, and Mr. Hudson, who heard all the evidence, expressed his opinion that nothing indicated an undue amount of gas at that time.

The theory of Mr. Fraser was that the explosion originated in the workings of Number 2 South Level. If such were the case, except so far as it would tend to vitiate the air current going through Number 2 South, the gas in all the working places but 5 and 43 may be eliminated so far as this phase of the investigation is concerned. The mine had been idle on the 17th and 18th of June, the two days immediately before the day of the disaster, but the ventilation system with the exception of the working of the hand fans was in full operation and a perusal of the examiners' reports for those days, shows the mine to have been more than ordinarily free of gas during that time. There does not seem to be anything in the evidence in regard to the presence of gas in the mine that assists in leading to any conclusion as to the cause of the disaster nor to lead to condemnation of the general system of ventilation then in use in the mine.

One of the great sources of danger in a mine lies in the presence of dust, provided that dust is of a sufficiently explosive or inflammable nature. The really dangerous dust is the fine impalpable dust that clings to the roof and walls and timbers used throughout the mine. This may, if of a sufficiently explosive character, be ignited by a blown-out shot or by contact with a flame of sufficiently high temperature. In the course of an explosion it generates its own gas and will rapidly spread through a mine where there is sufficient dust to feed the explosion, but the dust, if sufficiently wet loses for the time being its explosive character.

In regard to the character of the dust in the Hillcrest mine, both counsel for the mine owners and the miners at the enquiry agreed that I should avail myself of the result of the tests made by the United States Bureau of Mines as to the explosibility of samples of dust taken from the Hillcrest mine. Without adopting any technical language it may be said that these tests show that the dust in this mine is of a fairly highly explosive character and the dust would ignite by a blown-out shot or by an ignited pocket of gas. It may be said that the general supposition of practically all of the witnesses at the enquiry was that the dust was of this character, so that the evidence has all been given based upon this supposition, which has now been confirmed by these tests.

As to the quantity of dust in the mine, the evidence is to some extent conflicting. Mr. Aspinall, who was the Government Inspector of Mines for the district in which the Hillcrest mine is situated, a year or so prior to the disaster, stated that he would consider this a fairly dusty mine, and in his report of the 4th of July last year calls attention to the fact that there was considerable dust in certain places in the mine, but apparently the only immediate danger that was anticipated from the presence of this dust was from shot-firing and it seems that shot-firing was discontinued in the places complained of. On the other hand the evidence of nearly all of the men working in the mine who gave evidence was to the effect that prior to the explosion they would not consider this a dusty mine.

With the exception of Number 1 slant the main roadways are more or less wet. Number 1 North Level, may be said to be distinctly wet and so with Number 2 slope below Number 2 South Level, and this may also be said to apply to the northern part of Number 2 South Level. One of the means adopted to prevent the spreading of the dust explosions in a mine is by the watering of and keeping damp the main roadways in a mine although this system is not universally approved of, as nothing but the thorough soaking of the dust eliminates the danger. This system of dealing with the dust, however, has not been adopted in any of the Western Provinces and it cannot be said therefore that the company failed in their duty in not adopting such a course. The main roadways, as I have just said, were with some exceptions, wet, and it seems to have been the general opinion that the watering of the rooms and the working faces would be impracticable.

I do not think that the evidence is such as to show that the company had any reason to believe that there was a dangerous quantity of dust in this mine. At the same time it must be remembered that an explosion such as occurred on the 19th of June, would undoubtedly increase this dust and undoubtedly means should be adopted now by the company to eliminate as far as possible the danger from this dust by removing it as far as practicable from the mine or adopting any precautions that can be adopted to prevent the spreading of a dust explosion should it occur. It is needless, I think, to say that the greatest care should now be exercised in regard to shot-firing in the mine. A blown-out shot, as has been pointed out, is the one means of igniting dust directly, and blown-out shots are by no means uncommon in a mine. It is very questionable whether shot-firing should not be entirely eliminated from this mine until conditions in regard to dust are very much improved from what they were at the time of this enquiry.

Some criticism was made by Mr. Fraser in regard to the kind of stoppings that were adopted by the management of this mine. It was suggested that had the stoppings been of a more permanent nature the explosion would not have spread to the extent that it did. This however seems to be a debatable question and the evidence shows that the stoppings in this mine were of the same character as are used in the mines throughout the Western Provinces. There is nothing in the evidence to lead me to the conclusion that if the stoppings had been of a different character the extent of the explosion would have been curtailed. There is evidence indeed to the effect that substantial stoppings by first confining the forces developed by the explosion might have eventually rendered the disaster greater even than it was.

Apart from the matters I have already dealt with, there does not appear to be anything in connection with the management of the mine, nor in the care taken by the company in its operations that could have led or contributed in any way to the disaster.

The initial cause of the explosion does not appear to be ascertainable. I have, almost at the outset of this report, mentioned the ordinary causes of ignition of gas in a mine. Shot-firing having been eliminated, the explosion must of course have originated from the ignition of gas, but by what means there has been absolutely no suggestion. Certain of the ordinary causes of ignition have been or may be eliminated here, but there is no means whatever of fixing upon which of the remaining causes it was that started the explosion.

As to its character, Mr. Drinnan was of the opinion that it was almost entirely a gas explosion and that dust contributed very little if any to it. With this exception, however, the expert witnesses all were of the opinion that it was a gas explosion augmented by the ignition of dust and that dust played a considerable part if not the greatest part in the explosion. The finding of a very considerable amount of coked coal dust was one of the facts that was relied upon by those who advanced this latter theory and in view of the result of the tests of the dust, I think this view is the most reasonable one to adopt.

It is impossible also to determine the seat or place of origin of the explosion. Mr. Fraser expressed the opinion that it occurred in the workings above Number 2 South Level, but he is unable to point out any exact locality. The other experts were unable to come to any conclusion in this regard. In certain parts of the mine it can be said that the explosion did not originate, but apparently the place where it did originate cannot be determined.

It will be seen from the foregoing portions of this report, that the course adopted by the management of the mine in relation to the ventilation thereof, and other matters closely related to the question of ventilation, was apparently either objectionable or at least open to criticism, but the evidence does not go so far as to show that this was responsible for the disaster. And it must be said that Mr. Hudson stated that he would not attempt to criticize the ventilation of any mine from the plan, and without having the advice of the men who are conducting the ventilation from day to day. As one of the witnesses states it, so far as this explosion is concerned, something must have happened in the mine of which we have no evidence.

The only conclusion therefore, that I can arrive at, as a result of the whole evidence adduced at the enquiry is that the disaster was caused by an explosion of gas, the origin and seat of which is unascertainable, this explosion being augmented by the ignition of dust throughout the mine.

Although the cause of the explosion cannot be determined, a consideration of the facts and circumstances brought out by the evidence at the enquiry suggests certain recommendations which it is submitted, may lessen the extent of the danger that was shown to be attendant upon the operation of this mine. Most of these have already been suggested in this report.

Attention has been called to the fact that the Number 2 fan was without direct supervision, for about half an hour before the occurrence of the explosion, and it has been pointed out that the stopping of the fan for any considerable length of time might be attended with serious consequences. It is suggested that such a fan should be either under the constant supervision of some one or should have an automatic indicator attached thereto in lieu of such personal supervision.

The question of shot-firing in the mine has also been already discussed. It is suggested that, until the danger from dust in this mine is considerably reduced, shot-firing should be either discontinued entirely or that the men be withdrawn from the mine during such firing.

A recommendation in regard to the search of the employees, at stated intervals for matches, pipes and tobacco, has I understand, already been made by the coroner's jury, in connection with this disaster. It can be only added that where the personal equation must be so largely a factor in the safety of a mine, too great care cannot be exercised in such a matter as this.

Two further recommendations which do not immediately deal with the safety of the men employed in the mine are suggested. The difficulty arising from the absence of a plan of the ventilation system of a mine, at the enquiry, has already been referred to. And it has been pointed out that under the British Coal Mines Act the operators are required to keep such a plan in their office. It is suggested that a similar provision be inserted in our own Act. The difference of opinion existing in regard to the definition of a district or split has also been referred to. I have already indicated my own view in regard to the question, but it is suggested that a definition of the term be inserted in our Act, so that no difference of opinion can possibly, or at least reasonably, arise.

(Signed), A. A. CARPENTER,
Commissioner.

Calgary, October 20, 1914.

The following table gives the number of tons mined per accident in the province from the years 1906 to 1914, inclusive:

SUMMARY TABLE SHOWING ACCIDENTS OCCURRING IN MINES DURING YEARS 1906 TO 1914 INCLUSIVE.

YEAR.	OUTPUT.	ACCIDENTS.			TONS OF COAL MINED PER ACCIDENT.		
		Fatal.	Serious.	Slight.	Fatal.	Serious.	Slight.
1906	1,385,000	10	11	20	138,500	125,909	69,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61*	41	58	49,782*	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,656
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	153,789	71,772	51,883
1914	3,821,739	209**	44	50	18,286	86,857	76,434
Total	23,544,829	375	324	413	62,786	72,669	57,009

* Including thirty-one deaths caused by Bellevue explosion.

**Including one hundred and eighty-nine deaths caused by Hillcrest explosion.

TABLE SHOWING ACCIDENTS DURING 1914, CLASSIFIED ACCORDING TO DISTRICTS.

DISTRICT.	OUTP'T.	ACCIDENTS.			TONS OF COAL MIN'D PER ACCIDENT.		
		Fatal.	Serious	Slight	Fatal.	Serious	Slight
Crow's Nest Pass..	1,239,797	197	12	19	6,293	103,315	65,253
Lethbridge	782,690	3	11	4	260,230	71,153	195,672
Edmonton	937,830	2	13	13	468,915	72,140	72,140
Calgary	861,422	7	8	14	123,060	107,677	61,530

TABULATED LIST OF ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND DURING THE YEAR 1914.

CAUSE.	FATAL.		SERIOUS.		SLIGHT.		TOTAL.	
	Above	Below	Above	Below	Above	Below	Above	Below
Haulage	1	5	3	13	1	9	5	27
Explosions of gas or coal dust		189		2		4		195
Explosives		1		1	1	2	1	4
Fall of caprock				2		7		9
Fall of roof		4		5		5		14
Fall of top coal....		3		2		2		7
Fall of coal		1		5		7		13
Falling down chute.		3				1		4
Fall of coal from rib				1				1
Fall of rock				1		1		2
Crushed by box car.			4				4	
Struck by falling timber		1				1		2
Suffocated by black-damp		1						1
Fall of scaffolding..			1		1		2	
Fall down shaft						1		1
Caught between rope and guard on wh'l				1				1
Miscellaneous			1	2	2	5	3	7
Total	1	208	9	35	5	45	15	288

TABLE SHOWING ACCIDENTS DURING 1914 CLASSIFIED ACCORDING TO THE MINES AT WHICH THEY OCCURRED.

NAME OF OPERATOR.	ABOVE GROUND.			BELOW GROUND.			Total Above and Below Ground.		
	Fatal	Seri's	Slight	Total	Fatal	Seri's		Slight	Total
Hillcrest Collieries, Ltd.			2	2	191	4	9	195	
West Canadian Collieries, Ltd. (Bellevue)					3	2	2	14	
Canadian Pacific Railway Co. (Bankhead)		1		1	3	2	4	9	
Canadian Coal & Coke Co., Ltd. (Lovett)		4	1	5		3	3	3	
Canadian Pacific Railway Co. (Lethbridge No. 6)					1	3	3	7	
International Coal & Coke Co., Ltd.		1		1		2	3	6	
Brazeau Collieries, Ltd.	1			1		2	3	5	
McGillivray Creek Coal & Coke Co., Ltd.					3	1	3	4	
Canmore Coal Co., Ltd.									
Canadian Pacific Railway Co. (Lethbridge No. 3)						3	3	3	
Georgetown Collieries, Ltd.						1	2	3	
Yellowhead Pass Coal & Coke Co., Ltd.					1	1	1	3	
Canadian Coal & Coke Co., Ltd. (Coalhurst)					1			3	
Humberstone Coal Co., Ltd.		1		2		2	1	3	
Chinook Coal Co., Ltd.			1			1	1	2	
Canadian Coal & Coke Co., Ltd. (St. Albert)						1	2	2	
Great West Coal Co., Ltd.						2	2	2	
West Canadian Collieries, Ltd. (Blairmore)						2	2	2	
Cardiff Collieries, Ltd.		1		1			1	2	
Pembina Coal Co., Ltd.								2	
Jasper Park Collieries, Ltd.			1	1		1	1	2	
Maple Leaf Coal Co., Ltd.					1	1		2	
Durham Collieries, Ltd.							2	2	
Vulcan Collieries, Ltd.					1			1	
Dawson Coal Co., Ltd.					1		1	1	
Mountain Park Coal Co., Ltd.							1	1	
Benjamin Hronek							1	1	

The following table gives the classification of accidents according to the district in which they occurred:

CROW'S NEST PASS.

CAUSE.	FATAL.		SERIOUS.		SLIGHT.	
	Above	Below	Above	Below	Above	Below
Haulage		3		5	1	4
Explosions of gas or coal dust....		189				
Explosives				1		
Fall of caprock				2		1
Fall of top coal		3				1
Miscellaneous			1		1	2
Fall of coal		1		2		6
Falling down chute						1
Fall of coal from rib.....				1		
Fall of rock						1
Struck by falling timber		1				1
Total		197	1	11	2	17

CALGARY.

CAUSE.	FATAL.		SERIOUS.		SLIGHT.	
	Above	Below	Above	Below	Above	Below
Haulage	1		1	3		4
Explosives		1				
Fall of caprock						5
Fall of roof		3		1		2
Fall of top coal				1		1
Miscellaneous				1		
Fall of coal				1		1
Falling down chute		1				
Suffocated by blackdamp		1				
Fall down shaft						1
Total	1	6	1	7		14

LETHBRIDGE.

CAUSE.	FATAL.		SERIOUS.		SLIGHT.	
	Above	Below	Above	Below	Above	Below
Haulage		2	1	5		1
Explosions of gas or coal dust....				2		2
Fall of roof		1		2		1
Fall of top coal				1		
Total		3	1	10		4

EDMONTON.

CAUSE.	FATAL.		SERIOUS.		SLIGHT.	
	Above	Below	Above	Below	Above	Below
Haulage			1			
Explosions of gas or coal dust....						2
Explosives					1	2
Fall of caprock						1
Fall of roof				2		2
Miscellaneous				1	1	3
Fall of coal				2		
Falling down chute		2				
Fall of rock				1		
Crushed by box car			4			
Fall of scaffolding			1		1	
Caught between rope and guard on wheel				1		
Total		2	6	7	3	10

ACCIDENTS FROM EXPLOSIONS OF FIREDAMP OR COAL DUST CLASS-
IFIED ACCORDING TO CAUSE.

CAUSE OF EXPLOSION.	Fatal Accidents.		Non-Fatal Accidents Reported to Inspectors.	
	Number of Separate Accidents.	Number of Deaths.	Number of Separate Accidents.	Number of Persons Injured.
Naked lights			5	6
Cause unknown	1	189		
Total	1	189	5	6

ACCIDENTS WITH EXPLOSIVES CLASSIFIED ACCORDING TO THE NATURE
OF THE EXPLOSIVE.

NAME OF EXPLOSIVE.	Fatal Accidents.		Non-Fatal Accidents Reported to Inspectors.	
	Number of Separate Accidents.	Number of Deaths.	Number of Separate Accidents.	Number of Persons Injured.
Monobel	1	1	2	3
Detonators			1	1
Total	1	1	3	4

ACCIDENTS WITH EXPLOSIVES CLASSIFIED ACCORDING TO THEIR
CHARACTER AND CAUSE

CHARACTER OR CAUSE.	Fatal Accidents.		Non-Fatal Accidents Reported to Inspectors.	
	Number of Separate Accidents.	Number of Deaths.	Number of Separate Accidents.	Number of Persons Injured.
Attached detonator to electric signal wires			1	1
Struck by coal from shot..				
While working near an unexploded remnant left by incomplete detonation of the charge			1	2
Premature ignition while testing battery			1	1
Total	1	1	3	4

HAULAGE ACCIDENTS.

NATURE OF ACCIDENT.	Fatal Accidents.		Non-Fatal Accidents Reported to Inspectors.	
	Number of Separate Accidents.	Number of Deaths.	Number of Separate Accidents.	Number of Persons Injured.
While engaged in haulage operations	3	3	5	5
Crushed between cars and chute			1	1
Dumping cars			1	1
Run over by cars	1	1	3	3
Runaway cars	1	2	1	3
Jumping off cars			1	1
Derailed cars			1	1
Caught between cars			1	1
Caught between trap door and cars			1	1
Caught between side of road and car			1	1
While riding on cars in contravention of The Mines Act			2	2
Miscellaneous			6	6
Total	5	6	24	26

ACCIDENTS CAUSED BY PERSONS BEING RUN OVER OR CRUSHED BY CARS.

NATURE OF ACCIDENT.	Fatal Accidents.		Non-Fatal Accidents Reported to Inspectors.	
	Number of Separate Accidents.	Number of Deaths.	Number of Separate Accidents.	Number of Persons Injured.
Compressed air locomotives	1	1	6	6
Horse haulage	2	2	8	8
Tail-rope haulage	2	3	6	8
Self-acting incline			1	1
Hand haulage			3	3
Total	5	6	24	26

LIST OF ACCIDENTS WHICH HAVE OCCURRED DURING 1914.

DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
Jan.	2 West Canadian Collieries, Ltd. (Bellevue) ..	H. Bobesco	42	Bucker	Fell between cars while uncoupling. Chest bruised.
Jan.	2 West Canadian Collieries, Ltd. (Bellevue) ..	B. Malorinski	21	Loader	Finger crushed by car.
Jan.	3 Canadian Pacific Railway Co. (Lethbridge No. 6)	Thomas Ince	46	Loader	Ignition of gas by open light. Hands and face burned.
Jan.	6 Chinook Coal Co., Ltd.	August Chemalli	20	Pusher	Ignition of gas by open light. Hands and face burned.
Jan.	13 Canadian Pacific Railway Co. (Lethbridge No. 6)	Anton Osadchuck	25	Driver	Crushed between car and side of road. (Fatal).
Jan.	13 Canadian Coal & Coke Co., Ltd. (St. Albert) ..	Joseph Grey	26	Miner	Premature ignition of Monobel. Eyes and head injured.
Jan.	13 Canadian Coal & Coke Co., Ltd. (St. Albert) ..	William Critchley	33	Miner	Premature ignition of Monobel. Eyes and head injured.
Jan.	15 Great West Coal Co., Ltd.	Mike Kopenick	24	Miner	Ignition of gas by open light. Face Burned.
Jan.	19 The Caumore Coal Co., Ltd. (No. 2 Mine) ..	John B. Evans	29	Machinist	Fall of caprock. Laceration of forehead and face.
Jan.	26 Canadian Pacific Railway Co. (Bankhead) ..	Antoni Dutka	20	Loader	Caught between chute and car. Leg fractured.
Jan.	29 Durham Collieries, Ltd.	Andrew Hood	28	Miner	Fall of coal. (Fatal).
Jan.	29 Canadian Pacific Railway Co. (Bankhead) ..	W. Hartley	32	Loader boss	Crushed by locomotive. Finger fractured.
Jan.	29 Vulcan Coal Co., Ltd.	J. A. Skelton	42	Miner	Fall of roof. (Fatal).
Jan.	30 Hillcrest Collieries, Ltd.	John Mansell	42	Miner	Fall of coal. Leg fractured.
Feb.	3 McGillivray Creek Coal & Coke Co., Ltd.	Mike Knish	33	Miner	Fall of top coal. (Fatal).
Feb.	7 West Canadian Collieries, Ltd. (Bellevue) ..	George Hodynyick	38	Dumper	Crushed by car. Foot crushed.
Feb.	7 West Canadian Collieries, Ltd. (Blairmore) ..	C. Aillard	38	Miner	Fall of caprock. Hand injured.
Feb.	9 The Caumore Coal Co., Ltd. (No. 2 Mine) ..	Geo. Fiwehuck	34	Miner	Fall of rock, at coal face. Head lacerated.

DATE.	MINE.	NAME.	AGE.	OCCUPATION.	DETAILS.
Feb. 10	The Cardiff Collieries, Ltd.	Louis Adzich	50	Tracklayer	Fell while carrying a rail. Ribs bruised.
Feb. 12	Hillcrest Collieries, Ltd.	Wm. Farrel	30	Tracklayer	Found lying beside track. Cause of accident unknown. Skull fractured.
Feb. 13	Canadian Pacific Railway Co. (Bankhead)	M. Fristinsky	38	Driver	Caught by car. Right foot injured.
Feb. 19	International Coal & Coke Co., Ltd.	W. Polak	29	Timberman's helper	Car ran away, knocking out timber on slope. Ribs fractured.
Feb. 19	International Coal & Coke Co., Ltd.	Joe Micholski	28	Timberman's helper	Car ran away, knocking out timber on slope. Ribs fractured.
Feb. 19	International Coal & Coke Co., Ltd.	J. Dobroshinsky	37	Timberman	Car ran away, knocking out timber on slope. Ribs fractured.
Feb. 22	McGillivray Creek Coal & Coke Co., Ltd.	Adolph Leaf	39	Miner	Fall of rock at coal face. Collar bone and ribs fractured.
Mar. 2	The Great West Coal Co., Ltd.	Joe Thomas	23	Miner	Fall of roof at coal face. Scalp wound.
Mar. 2	Canadian Pacific Railway Co. (Bankhead)	J. Clarke	30	Miner	Fall of rock at coal face. Right leg bruised.
Mar. 4	Brazeau Collieries, Ltd.	W. Bailey	34	Driver	Fell in front of cars. (Fatal).
Mar. 7	West Canadian Collieries, Ltd. (Bellevue)	John Sudlowchuk	21	Loader	Struck by prop falling down chute. Head injured.
Mar. 9	Canmore Coal Co., Ltd. (No. 1 Mine)	William Kerr	26	Examiner	Fall of rock at face. Body bruised.
Mar. 10	West Canadian Collieries, Ltd. (Blairmore)	C. Losson	36	Miner	Fall of coal. Collar bone fractured.
Mar. 14	Hillcrest Collieries, Ltd.	Geo. Jaines	18	Rope rider	Fell in front of car while jumping off trip. Left arm fractured.
Mar. 18	West Canadian Collieries, Ltd. (Bellevue)	Tony Catyzok	37	Miner	Fall of coal at face. Hip bruised.
Mar. 19	West Canadian Collieries, Ltd. (Bellevue)	John Katka	34	Miner	Fall of coal. Back and chest bruised.
Mar. 21	West Canadian Collieries, Ltd. (Bellevue)	T. L. Wade	30	Mechanic	Repairing air locomotive. Hand cut.
Mar. 21	West Canadian Collieries, Ltd. (Bellevue)	G. Jordan	44	Miner	Fall of coal. Eye injured.
Mar. 23	West Canadian Collieries, Ltd. (Bellevue)	C. Orest	23	Timber packer	Fell down chute. Leg bruised.
Mar. 23	International Coal & Coke Co., Ltd.	W. White	30	Miner	Fall of rock. Left ankle fractured.
Mar. 24	Canadian Pacific Railway Co. (Lethbridge No. 3)	T. Ostoficiuc	19	Scraper	Ignition of gas with open light. Face and hands burned.

DATE.	MINE.	NAME.	AGE.	OCCUPATION	DETAILS.
Mar. 24	Canadian Pacific Railway Co. (Lethbridge No. 3)	L. Gresl	19	Pumpman	Ignition of gas with open light. Face and hands burned.
Mar. 26	The Dawson Coal Co., Ltd.	Jas. Malcolm	58	Miner	Fall of roof. Knee cap bruised.
Mar. 26	West Canadian Collieries, Ltd. (Bellevue)	Eric Hogg	31	Miner	Fall of coal from rib. Thigh fractured.
Apr. 2	The Cardiff Collieries, Ltd.	A. Niconovitch	27	Shunter	Fell off railway car. Ankle fractured.
Apr. 6	The Pembina Coal Co., Ltd.	P. Patterson	20	Machine runner	Fall of roof. Concussion of brain and shock.
Apr. 9	West Canadian Collieries, Ltd. (Bellevue)	M. Lestosky	27	Miner	Fall of top coal. Back and legs bruised.
Apr. 9	West Canadian Collieries, Ltd. (Bellevue)	J. Evans	33	Miner	Fall of coal from rib. Back bruised.
Apr. 15	Canadian Pacific Railway Co. (Bankhead)	P. Cputa	27	Loader	Crushed against rib by derailed car. Chest bruised.
Apr. 23	Mountain Park Coal Co., Ltd.	A. Rossi	24	Miner's helper	Fall of caprock. Face and hand cut.
Apr. 30	Canadian Coal & Coke Co., Ltd. (Lovett)	John Davidson	39	Miner	Fall of coal. Compound fracture of right tibia. Rib fractured and scalp wound.
May 4	Brazeau Collieries, Ltd.	Sam Lombardo	28	Miner	Fall of top coal. Chest crushed.
May 8	Georgetown Collieries, Ltd.	Mike Polak	26	Miner's helper	Fall of coal. Compound fracture of left thumb.
May 15	Brazeau Collieries, Ltd.	Jas. Duncan	43	Miner	Fall of caprock. Collar bone broken.
May 18	Benjamin Hronek	Wm. Knight	27	Miner	Fall of roof. Back injured.
May 19	Canadian Pacific Railway Co. (Bankhead)	Peter Conachen	14	Picker	Struck by empty car in breaker. Leg fractured.
May 21	Drumheller Coal Co., Ltd.	Martin Foresak	45	Miner's helper	Struck by flying coal from shot when cross-cut was broken through into room. (Fatal).
May 29	Canadian Coal & Coke Co., Ltd. (Lovett)	Thomas G. Jones	33	Bratticeman	Caught between two cars. Simple fracture of right tibia.
May 29	Canadian Pacific Railway Co. (Lethbridge No. 6)	Bill Makeranko	23	Driver	Door which was propped open, closed while trip was passing through. Broken collar bone.
May 30	International Coal & Coke Co., Ltd.	Fred. Wasyliw	25	Miner	Fall of rock. Back bruised.

DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
June 3	Twin City Coal Co., Ltd.	T. Mede	29	Scraper	Fall of roof. Internal injuries.
June 8	Jasper Park Collieries, Ltd.	Peter White	32	Miner	Crushed against bulkhead by coal in chute. (Fatal).
June 11	Franco-Canadian Collieries, Ltd. (Shaft)	James Finlayson	38	Manager	Caught between loaded car and fence of hoisting engine. Pelvis fractured.
June 12	Canadian Pacific Railway Co. (Lethbridge No. 6)	J. Bolokoski	33	Loader	Fall of roof. Finger fractured.
June 19	Hillcrest Collieries, Ltd.	James S. Quigley	40	Manager	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Thomas Taylor	42	Overman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Sam Charlton	43	Examiner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Chas. Elik	39	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Steve Myrovich	52	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Hugh Hunter	45	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Chas. Coan	35	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Andrew Dugdale	24	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	David Jno. Walker	35	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Geo. Hicken	28	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Clarke	32	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Jas. Bradshaw	46	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Sidney Bainbridge	39	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Thos. Bardsley	36	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Mike Kipyanchuk	32	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Mike Janego	36	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Sands	29	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Peter Ackers	25	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Melok	23	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Turner	35	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Andrew Balant	39	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Robert Anderson	40	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	David C. Murray	26	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John A. McQuarrie	28	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Antonio Catanio	31	Miner	Explosion of gas and coal dust. (Fatal).

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DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
June 19	Hillcrest Collieries, Ltd.	Leonard Clarke	34	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Adam Melklejohn	40	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Thomas Turner	31	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	James Penn	46	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	James Barber	52	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Alex. Porteous, Jr.	37	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Edward Stretton	39	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Arthur Pardeggt	23	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Gallimore	30	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Pius McNeil	28	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Fred. Bingham	35	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Chas. Schroeder	33	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Thomas Smith	37	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Robert Petrie	25	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Hood	25	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John B. McKinnon	30	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Steve McKinnon	34	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Davidson	44	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Alfred Silva	35	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Emil Chabillon	34	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John S. Bowie	37	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Frank Labonne	37	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Matthew Dickenson	25	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Gustaf Francz	38	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	David Murray	46	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Robert Coulter	36	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Carl Johnson	33	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Rochester	28	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Fred. Johnson	23	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Rod McIsaac	23	Companyman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Heber	46	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Dan. Cullinen	38	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Fred. Muirhouse	47	Miner	Explosion of gas and coal dust. (Fatal).

DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
June 19	Hillcrest Collieries, Ltd.	Robt. Dugdale	27	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Nicholas Megney	48	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Thos. L. Wilson	41	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Leon Payet	32	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Geo. Pounder	36	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Chas. S. Charles	24	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Jas. F. Gray	40	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Dominic Montelli	27	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Antoine Legarde	37	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Fines	23	Companyman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Thos. W. Brown	34	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Fred. Coulter	30	Companyman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Miller	27	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Alex. Morrison	38	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Neith	25	Companyman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Henry Carr	42	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Albert Buckham	25	Companyman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	James Ewing	24	Companyman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Geo. Robertson	37	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Hillman	24	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Jos. Oakley	44	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Everard Eveloir	32	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	August Flougere	34	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Alphonse Heusvens	26	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Frank Bostock	32	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Moore	25	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Thos. Corkill	41	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Morley	39	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Pat. Kane	54	Miner	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Robert Muir	29	Driver boss	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Deo Thomas	25	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Joe Vohradsky	21	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Mike Zaska			

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DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
June 19	Hillcrest Collieries, Ltd.	Albert Rees	22	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Zahara	20	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Luigi Fortunato	25	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Dominic Albanese	32	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Steve Malanchuck	32	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Luigi Rosti	26	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Geo. Androski	36	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Fox	19	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Antonio Gasperion	25	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Emil Ermaele Gardina	28	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Sandul	21	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Pete Fedoruk	29	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Eduardo Pagnan	28	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Bolinski	31	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Jacob Andreashchuk	37	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Alberti Tamborini	23	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Vince Vohradski	26	Companyman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Etalleredo Botter	31	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Guiseppi Marcolli	24	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Steve Banyar	39	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Joe Camarda	33	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Ralph Hansford	30	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Fred. C. Bennett	30	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Antonio Caielli	33	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Nick Albanese	24	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Sam Cantaline	23	Bucker boss	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Guiseppi Parnisari	19	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Baldo Tamborini	19	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Nicholas Demchuk	22	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Dan Kostynuk	20	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Carlo Parnisari	20	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Carlo Cassagrande	24	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Nick Kuzenko	29	Bucker	Explosion of gas and coal dust. (Fatal).

DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
June 19	Hillcrest Collieries, Ltd.	Robert Murray	21	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Pete Cantaline	23	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John G. Fogale	35	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	A. Gramacci	21	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Vincenzo Fortunato	31	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Ulderico Marchetto	23	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Joseph H. Rochester	19	Timber packer	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Carlo Gianoli	19	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Fred. Ralnyk	39	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Basso Catterino	23	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Foster	25	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Antonio Cimetta	24	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	B. Ralnyk	22	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Chris Kosmik	34	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Mike Skurhan	50	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Petro Kohar	19	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Nick Morron	23	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Pietro Bozzer	25	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Eugenio Ciccone	21	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Vito Celli	26	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Luis Zanis	27	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Brown	30	Pumpman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	William Johnson	18	Pumpboy	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	George Demchuk	24	Timber packer	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Fred. Vendrasco	26	Timber packer	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Frank Frech	33	Timber packer	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Samuel Ironmonger	23	Timber p'ker boss	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Ylio Guido	21	Timber packer	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Fred. Kwasnico	23	Timber p'ker boss	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Steve Ratko	23	Timber packer	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Herbert Adlam	24	Timber packer	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Angus H. McKay	21	Timber packer	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Albert Southwell	31	Timber packer	Explosion of gas and coal dust. (Fatal).

DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
June 19	Hillcrest Collieries, Ltd.	Dan Sandulik	28	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Pete Somotink	39	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Leonce Chabillon	24	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Mudrik	33	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	James Armstrong	35	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Thaczuk	22	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Thomson Court	23	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Pete Knock	37	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wasyl Kwasnko	32	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Philip Hnacruk	22	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wasyl Zapisocki	22	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Eugenio Rossanese ..	25	Timber packer ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Rod Wallis	22	Track layer	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	John Pearson	18	Fan boy	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	David Emery	30	Bratticeman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Murray	22	Driver	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. G. Miller	21	Driver	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wasyl Iluk	24	Bucker	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Virgilio Bodio	23	Driver	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Chas. Ironmonger ..	19	Driver	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	James Petrie	26	Bratticeman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Alex. Petrie	17	Bratticeman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	David G. Harris	22	Bratticeman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	James Porteous	31	Timberman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Trump	46	Companyman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	R. W. Penn	23	Timberman	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Fred. Kurigatz	22	Rope rider	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Mike Tyron	18	Rope rider	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Prosper Dave	21	Driver	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Robert Smith	28	Mine carpenter ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Thomas Quigley	35	Mine carpenter ..	Explosion of gas and coal dust. (Fatal).
June 19	Hillcrest Collieries, Ltd.	Wm. Brown	39	Machinist	Explosion of gas and coal dust. (Fatal).

DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
June 20	Georgetown Collieries, Ltd.	Wm. Hauston	29	Miner	Hand caught between rope and drum. Fingers on left hand amputated.
July 1	Edmonton Standard Coal Co., Ltd.	Frank Barton	24	Miner	Ignition of gas. Face and hands burned.
July 3	Yellowhead Pass Coal & Coke Co., Ltd.	G. Logusz	20	Machine runner	Caught by coal cutting machine. Finger amputated.
July 9	Brazeau Collieries, Ltd.	Wm. Quinn	45	Miner	Fall of coal. Compound fracture of leg.
July 9	Brazeau Collieries, Ltd.	Joe Thomas	31	Miner	Fall of coal and caprock. Left side bruised.
July 16	Canadian Coal & Coke Co., Ltd. (Lovett)	Neil McLeod	41	Carpenter	Fell from scaffold. Ribs fractured.
July 16	Maple Leaf Coal Co.	Premo Vendrasco	30	Miner	Fall of coal. Leg sprained.
July 18	Canadian Coal & Coke Co., Ltd. (Coalhurst)	Wins. Sandeskie	28	Loader	Fall of roof. Left leg fractured.
July 24	West Canadian Collieries, Ltd. (Bellevue)	A. Flosatte	22	Miner	Fall of coal. Legs fractured.
July 27	International Coal & Coke Co., Ltd.	Angello Bortolussi	39	Laborer	While hauling casting into position chain broke and casting fell. Left foot crushed.
July 27	West Canadian Collieries, Ltd. (Bellevue)	M. Flosatte	28	Miner	Fall of top coal. (Fatal).
July 27	West Canadian Collieries, Ltd. (Bellevue)	L. Augustine	25	Miner	Fall of top coal. (Fatal).
July 29	Humberstone Coal Co., Ltd.	Edward Phillips	19	Pumpman	Caught by plunger of pump. Forefinger fractured.
Aug. 11	Canadian Coal & Coke Co., Ltd. (Lovett)	Mike Belkovich	24	Box car loader	Crushed by railway car. Ribs fractured.
Aug. 11	Canadian Coal & Coke Co., Ltd. (Lovett)	Louis Belkovich	21	Box car loader	Crushed by railway car. Ribs fractured.
Aug. 11	Canadian Coal & Coke Co., Ltd. (Lovett)	Guy Civick	35	Box car loader	Concussion and shock.
Aug. 11	Canadian Coal & Coke Co., Ltd. (Lovett)	Mike Volies	28	Box car loader	Concussion and shock.
Aug. 14	Maple Leaf Coal Co.	Saute Avalado	26	Miner	Fell while walking down slope.
Aug. 26	The Clover Bar Coal Co., Ltd.	Wm. Jinks	47	Timberman	Struck on eye by pick.
Sept. 3	Canadian Coal & Coke Co., Ltd. (Coalhurst)	Filiks Mulgum	17	Driver	Caught by empty car running down incline. (Fatal).
Sept. 8	Canadian Coal & Coke Co., Ltd. (Beaver Mines)	Louis Angelo	26	Miner	Caught by falling timber. Left forefinger fractured.

DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
Sept. 16	McGillivray Creek Coal & Coke Co., Ltd.	I. W. Bateman	24	Miner	Fall of coal. (Fatal).
Sept. 18	Hillcrest Collieries, Ltd.	Frank Terlecki	27	Driver	Jumped off trip of loaded cars. Pelvis fractured.
Sept. 18	R. W. K. Cousins	Alex. K. Stewart	29	Laborer	Suffocated by blackdamp in well. (Fatal).
Sept. 25	Georgetown Collieries, Ltd.	J. C. Watson	23	Pumpman	Caught between side of slope and cars. Chest crushed and ribs fractured.
Sept. 25	Canadian Pacific Railway Co. (Lethbridge No. 6)	John Palamaruk	19	Driver	Caught by sprag in wheel of moving car. Compound fracture of left leg.
Sept. 25	Pembina Coal Co., Ltd.	Mike Floriff	16	Slate picker	Fired detonator by attaching to electric signal wires. Two fingers blown off.
Sept. 30	McGillivray Creek Coal & Coke Co., Ltd.	Paul Alauzen	44	Miner	Struck by falling timber. (Fatal).
Oct. 3	The Humberstone Coal Co., Ltd.	John Abbott	35	Carpenter	Working at scaffolding at tippie when scaffolding gave way. Ankle sprained.
Oct. 3	The Humberstone Coal Co., Ltd.	Edwin Robinson	33	Carpenter	Working at scaffolding at tippie when scaffolding gave way. Spine injured.
Oct. 7	Canadian Coal & Coke Co., Ltd. (Lovett) ...	John Melkovich	28	Miner	Fall of coal. Simple fracture of left femur bone.
Oct. 7	Yellowhead Pass Coal & Coke Co., Ltd.	Andrew Klodnicki	24	Miner	Buried by coal in chute. (Fatal).
Oct. 7	Canadian Pacific Railway Co. (Lethbridge No. 6)	George Gangor	28	Driver	Fell in front of trip of loaded cars. Right leg fractured.
Oct. 9	Canadian Pacific Railway Co. (Bankhead) ..	Ias. Debruski	27	Laborer	Fall of roof. Tibia fractured.
Oct. 9	Union Coal Co., Ltd.	Otto P. Schmidt	34	Pumpman	Fell from landing in shaft. Nose fractured.
Oct. 22	The Leitch Collieries, Ltd.	Joseph Naso	27	Miner	Premature ignition of monobel. Left hand amputated.

DATE.	MINE.	NAME.	AGE	OCCUPATION	DETAILS.
Nov. 3	Canadian Pacific Railway Co. (Bankhead) ..	John Bielek	19	Laborer	Fell down chute. (Fatal).
Nov. 5	Yellowhead Pass Coal & Coke Co., Ltd.	Richard Schneider ..	47	Mach'man's help'r ..	Fall of rock. Left leg fractured.
Nov. 13	Canadian Pacific Railway Co. (Lethbridge No. 6)	Geo. Koshelik	18	Driver	Fell in front of trip of loaded cars. Back and legs bruised.
Nov. 18	Block Coal Collieries.	John Guenerd	34	Bl'ksmith's helper ..	Fell while replacing rope on pulley. Left arm fractured.
Nov. 18	The National Coal Co.	Herman Dunke, Sr.	44	Miner	Fall of top coal. Right leg fractured.
Nov. 20	Hillcrest Collieries, Ltd.	Pacifico Cimetta	22	Rope rider	While riding on trip in slope rope broke. (Fatal).
Nov. 20	Hillcrest Collieries, Ltd.	Wm. Thomas	19	Driver	While riding on trip in slope rope broke. (Fatal).
Nov. 25	Canadian Pacific Railway Co. (Bankhead) ..	N. Morello	44	Miner	Fall of roof and pillar. (Fatal).
Nov. 25	Canadian Pacific Railway Co. (Bankhead) ..	H. Packny	23	Un'ground laborer ..	Fall of roof and pillar. (Fatal).
Dec. 1	Canadian Pacific Railway Co. (Lethbridge No. 3)	John Matish	42	Loader	Fall of top coal. Left leg fractured.
Dec. 9	Battle River Collieries, Ltd.	Chas. Gray	48	Pumpman	Fell while straightening pipe. Ankle fractured.
Dec. 12	West Canadian Collieries, Ltd. (Bellevue) ..	Frank Gregory	25	Brakeman	Head crushed between locomotive and timbers. (Fatal).
Dec. 14	Chinook Coal Co., Ltd.	George Koshman	21	Driver	Fall of rock. Collar bone fractured.
Dec. 15	Canadian Coal & Coke Co., Ltd. (Coalhurst) ..	Paul Ponterillo	19	Pick boy	Crushed by moving car. Left leg fractured.
Dec. 17	Jasper Park Collieries, Ltd.	T. Columbo	34	Timber packer ..	Crushed between hoisting rope and iron guard on wheel. Two fingers on left hand amputated.
Dec. 30	Brazeau Collieries, Ltd.	A. Slobodzian			Fell in front of trip of cars. Leg fractured.

CLASSIFICATION OF ACCIDENTS ACCORDING TO OUTPUTS OF MINES
WHICH PRODUCED DURING 1914.

	Under 50,000 Tons	From 50,000 To 100,000 Tons	From 100,000 To 200,000 Tons	From 200,000 To 300,000 Tons	From 300,000 To 400,000 Tons	From 400,000 To 500,000 Tons	Total
Fatal ...	4	2	8	191*		4	209
Serious ..	10	10	9	7		8	44
Slight ...	17	5	11	3		14	50
Total ..	31	17	28	201		26	303

*Including one hundred and eighty-nine deaths caused by the Hillcrest explosion.

BOARD OF EXAMINERS.

During the year 1913 the province for the purposes of Section 17 of The Mines Act was divided into 6 districts, and a district board of examiners appointed for each of these districts. It was, however, considered advisable to have one central board for the province as provided for in Section 17, Sub-section 3 of The Mines Act. The composition of this board is now as follows:

As representing:

- (a) The Mines Inspectorate:
John T. Stirling, Chief Inspector of Mines.
- (b) Managers:
Messrs. Robert Livingstone and Wm. A. Davidson.
- (c) Miners:
Messrs. Fred. Allott and James Lindsay.

Two meetings of the board have been held at Frank during the year 1914, one on May 14th, and the other on August 19th.

Rules for the conduct of examinations, which were made and approved by you, were put into effect on January 31st, 1914.

At the meeting held on August 19th, the following local examiners were appointed by the provincial board:

Crow's Nest Pass District:	W. A. Davidson Fred. Allott William Shaw.
Lethbridge District:	Robert Livingstone James Lindsay Samuel A. Jones.
Calgary District:	John Watters James A. Richards.
Edmonton District:	Alex. C. Dunn Francis Aspinall.
Edson District:	Andrew A. Millar Ernest D. Black.

Previous to the appointment of the provincial board by the Lieutenant Governor in Council, examination of candidates for Third Class Certificates were held by the District Boards as follows:

At Lethbridge on February 12th, 13th and 14th.
 At Bankhead on March 12th.
 At Pocahontas on April 9th.
 At Frank on May 13th.
 At Coalspur on June 10th.

and since the formation of the provincial board, examinations of candidates for First and Second Class Certificates were held at Frank, Calgary, Lethbridge and Edmonton on June 23rd, 24th and 25th, and for Third Class Certificates at Frank, Lethbridge, Calgary, Edmonton and Edson on October 21st.

During the year, 244 candidates made application to sit at these examinations, 92 of whom passed as follows:

Managers, 9; overmen, 12; examiners, 71.

159 persons hold final certificates, qualifying them to act as mine managers; 183 hold final certificates qualifying them to act as overmen, and 360 hold final certificates qualifying them to act as examiners and shot-lighters in the province.

During the year, 141 provisional certificates were issued under The Mines Act, authorizing the holders of these certificates to act as overmen until they had an opportunity of obtaining certificates by examination. No Third Class Provisional Certificates have been issued during the year.

The following are the questions set at the examinations for Second and Third Class Certificates held at Edmonton, Frank, Calgary and Lethbridge on June 23rd, 24th, 25th, under The Mines Act.

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 1.

Time—Three Hours.

PRACTICAL WORK

1. Describe in detail with sketches the method of mining as practised in the lignite fields in Alberta. (25)

2. What is the chief source of fatal accidents in Alberta? What proportion does this class of accident bear to the whole? How may these accidents be avoided? Compare by means of public statistics the fatalities in the coal mines in Alberta with the fatalities in the large mining countries of the world. (25)

3. Describe in detail with sketches a method of working the inclined bituminous coal seams in Alberta. Discuss the reasons governing the chief points of your answer. (25)

4. Describe in detail an apparatus and tools suitable for boring for coal in the upper or middle cretaceous formation. (20)

5. How would you sink a shaft 12 ft. by 18 ft. in the clear to a depth of 200 feet? Give details of plant and material required and speed of sinking. (25)

6. Discuss the arguments for and against systematic timbering. Sketch and describe how you would timber an entry in soft coal in a seam pitching 30° to the horizontal, noting the precautions which must be taken to have the sets put in properly. (20)

7. What are the various uses of concrete in mining? State the proportional ingredients for a good concrete mixture. What is the strength of good cement? (15)

8. Discuss the various theories advanced as to the origin of coal seams and what disturbances have the coal fields of Alberta been subjected to since their formation? What bearing have these disturbances on the economic mining of these coal seams? (20)

9. Describe with sketches how you would lay out a pit bottom in order to deal with an output of 1,000 tons in eight hours from a flat seam which averages 3 ft. 10 ins. in thickness. (25)

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 2.

Time—Three Hours.

THEORY AND PRACTICE OF VENTILATION

1. What is meant by the term "occluded gases"? Name the occluded gases found in coal mines. What other gases are met with in coal mines, and how do they originate? State briefly some of the characteristics of each gas. (25)

2. Of what value are regular readings and records of the barometer and thermometer? Under what conditions are readings of the hygrometer of value? If a barometer at a mine registers on an average 27 inches, what would be the approximate elevation above sea level and the atmospheric pressure in pounds per square inch? (25)

3. The underground workings of a mine are divided into three districts, each district being ventilated by a separate split. If the resistance to the passage of air in each split is unequal, describe fully by what means you would provide an equal quantity of air for each district. (15)

4. If the total quantity of air circulating in a mine is 120,000 cubic feet per minute with a water gauge of 3.5 inches, find the indicated horsepower of the fan engine when the combined efficiency of fan and engine is 70 per cent. (15)

5. A seam of coal lying at an inclination of 35 degrees is worked on the room and pillar system the rooms being driven up the pitch. The distance between each set of levels is 400 feet. Several pillars in the lower panel have been extracted and the strata overlying the coal seam gives off CH₄ freely. Rooms are still being driven

to the rise of this gob and also on the inbye side of it. Show by means of a sketch how you would ventilate this part of the mine. (30)

6. The ventilating fan at a mine is exhausting but is made reversible. Explain under what emergency arising underground would the reversal of the ventilating current be of benefit. (20)

7. Describe fully any method of testing the percentage of CH_4 in the return air other than by a safety lamp. In a large mine yielding CH_4 , how often would you make such tests? (15)

8. Taking the atomic weight of Hydrogen as 1, what are the relative weights of the gases mentioned in your answer to Question 1? (15)

9. Sketch and describe an apparatus for testing safety lamps in an explosive mixture. (20)

10. If naphtha is used in the safety lamps at a mine, describe what precautions you would take to prevent accidents in the lamp cabin. (20)

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 3.

Time—Three Hours.

EXPLOSIONS, UNDERGROUND FIRES AND INUNDATIONS

1. In a dry and dusty mine where inflammable gas is given off in the workings, what precautions would you take to prevent the ignition of coal dust? If no inflammable gas was found, would you continue the precautions? Give reasons. (30)

2. An explosion has occurred in a mine where inflammable gas is frequently found in the workings. The fan is undamaged and still working. An examination of the return air indicates that a fire exists in the workings. What precautions, for their own safety are necessary by an exploring party entering the mine? (30)

3. To what causes do you attribute spontaneous heating underground? How can this heating be detected and what steps would you take to eliminate the danger? (25)

4. It becomes necessary to wall off a gob fire, and to do so effectively, several working places have to be included in the area affected by the stoppings. By what means would you ascertain when the stoppings could be removed? What dangers would you guard against in removing them? (20)

5. During rescue work underground after an explosion, a rescue party wearing breathing apparatus find on returning along a roadway which was previously clear of gas that it contains a considerable percentage of CO . How do you account for this? What instructions would you give to guard against disaster from this source? (25)

6. The rise workings in a coal mine operated by a shaft are approaching old workings containing water. What precautions

would you adopt? If it became necessary to drain the old workings, how would you do this without interfering with the working of the mine? (20)

7. Describe the appliances and organization necessary for the proper conduct of rescue and exploring work after an explosion. (30)

8. A dam has to be built in a level 10 ft. wide and 6 ft. high to hold back water. The pressure on the dam may reach 150 pounds per square inch. Describe in detail with sketch how you would build this dam, giving dimensions. (20)

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 4.

Time—Three Hours

MACHINERY

1. A double compartment hoisting shaft is 600 feet deep. The output is 1,000 tons per day of 10 hours, five-sixths of this time being available for hoisting coal. One minute is consumed in running the shaft and changing cars. Assume any suitable dimensions for the cages and cars and find the diameter of hoisting rope required. (30)

2. Sketch and describe a detaching hook to prevent damage from overwinding. Describe some safety appliance to prevent overwinding. (15)

3. A slope is 3,000 feet in length with an average dip of 15 degrees. Water accumulates at the bottom of the slope at the rate of 150 gallons per minute. Power is available for pumping during eight hours of the 24. What horsepower is required to pump this water to the surface? What area of lodgment would you provide. (20)

4. Describe with sketches a double inlet fan of any modern type and show the attachments necessary to make it reversible. (25)

5. A wooden beam 6 inches square and 6 feet between supports is used for lifting material, pulley blocks being attached to the beam midway between supports. What is the heaviest load that could be lifted with safety? (15)

6. Why is it advisable to cool the air cylinders of an air compressor? The pipe line connecting the compressing engine and the charging station on a high stage air haulage system is 6,000 feet long. Would you install any other appliances along with the pipe line, and if so, why? (20)

7. How would you find the horsepower of a steam boiler? What fittings are essential for the safety of a boiler? (10)

8. An endless rope haulage engine is driven by an electric motor running at a speed of 500 revolutions per minute. The diameter of the rope pulley is 4 feet and the speed of the rope is 3 miles per hour. Describe with sketches the gearing necessary to accomplish this. (20)

9. Describe briefly different systems of generating and transmitting electric power. (30)

10. If electric coal cutters are used underground and the power is received from a central power plant at a pressure of 3,000 volts, what reduction would you make in this pressure before conveying it underground? How would you prevent too high a current passing through the circuit? (15)

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 5.

Time—Three Hours.

SURVEYING

1. Describe in detail the transit as used for mining work and explain how you would adjust it. (20)

2. Calculate from the following notes of a transit survey the length and bearing of the line from Station No. 1 to Station No. 6. Plot the notes to a scale of 100 feet to 1 inch. Show calculations. (25)

Station	Azimuth	Distance in feet	Notes
At Station 1.			Reference point due north
To reference point....	0.00		of Station 1.
To Station 2.....	38.00	280	
At Station 2.			
To Station 1.....	218.00		
To Station 3.....	85.30	118	
At Station 3.			
To Station 2.....	265.30		
To Station 4.....	41.00	48	Corner of fence.
To Station 5.....	123.00	242	
At Station 5.			
To Station 3.....	303.00		
To Station 6.....	200.15	343	



3. The above is part of a map of the surface of a coal area showing contours at 10 feet intervals. The distance from A to B is 700 feet. Project a profile along the line A—B using a horizontal scale of 100 feet to 1 inch and a vertical scale of 20 feet to 1 inch. (20)

4. Plot the following notes from a level book and calculate the average grade of a road from point A to point B. (25)

	B.S.	I.S.	F.S.	Distance in feet	Notes.
1.....	5.36				Point A.
2.....		5.46		100	
3.....	2.85		5.58	100	
4.....	4.32		6.55	150	Opposite centre of cross
5.....	4.95		3.15	180	entry
6.....		4.85		100	
7.....			5.05	100	Point B.

5. A topographical map of a coal bearing area is made on a scale of $\frac{1}{30000}$. Construct a scale to measure distances on the map to 500 feet. (15)

6. In running a survey line, a deep ravine is encountered. How would you extend the line over the ravine and how would you find the horizontal distance across the ravine measured along the line of survey? (20)

7. Why is it necessary to keep plans of a mine? What are the sources of error in mine plans and what effect may these errors have on safe and economic mining? (15)

8. Draw to a scale of $\frac{1}{2}$ an inch to 1 foot a sheave wheel 10 feet in diameter to carry a 1 inch rope. Show the wheel in side elevation and cross section. Supply dimensions not given. (20)

9. The plan of an underground levelling and the plan of a tied in survey of at least ten sights as required by Rule 2 (a) (v) of the Rules as to the Qualifications of Applicants for First, Second and Third Class Certificates of Competency, must be handed in with the answers to this paper. (40)

FIRST CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 120.

Paper No. 6.

Time—Three Hours.

THE MINES ACT

1. What is meant by the terms "Mine," "Shaft," "Tunnel or Level," "Outlet," "Plan," "Owner," and "Manager" as defined in The Mines Act? (12)

2. What reports are required by the Act to be kept at a mine which is entered by means of a shaft? State what notices have to be posted and what notices have to be forwarded to the Minister of Public Works and to the District Inspector in accordance with the provisions of The Mines Act and the Rules for the Installation and Use of Electricity in or about Mines. (20)

3. What are the provisions of The Mines Act as to the employment of boys, women and girls and what are the provisions with reference to the time persons may be employed below ground? (16)

4. What is meant by the terms "Pressure," "Low Pressure," "Medium Pressure," "High Pressure," "Open Sparking," and

“Authorized Person” as defined in the Rules for the Installation and use of Electricity in or about Mines? (14)

5. State fully the provisions of the Act relating to accidents. (16)

6. State fully the provisions of the Act relating to—
 (a) Plans of workings, and
 (b) Plans of abandoned mines. (20)

7. State fully the provisions of the Act relating to single outlets. (16)

8. What are the Special Provisions of The Mines Act relating to—
 (a) Shot-lighter, and
 (b) Safety lamps? (18)

9. What are the provisions of the Rules for the Installation and Use of Electricity in or about Mines relating to—
 (a) The supervision and working of apparatus;
 (b) Plans;
 (c) Cables? (20)

10. State the provisions of The Mines Act relating to shaft sinking. (16)

11. What are the provisions of The Mines Act with reference to the payment of wages? (12)

12. Describe in general terms any mine with which you are acquainted, stating the thickness and inclination of the seams worked, their depths from the surface and the nature of the roof or overlying stone, the system or systems of working, the presence of gas or water and how the underground staff is organized. (20)

SECOND CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 100.

Paper No. 1.

Time—Three Hours.

PRACTICAL WORK

1. Describe and classify: Anthracite, Bituminous, Cannel and Lignite Coal. (20)

2. Describe how you would draw timbers in pillar workings having due regard for safety. (25)

3. What are the causes of a blown-out shot and how may blown-out shots be guarded against? (25)

4. How would you lay out and work a lignite mine for an output of 200 tons per day, lump coal? Give full details of the number of men you would employ underground in the various capacities. (30)

5. How may pillars be extracted in—
 (a) A horizontal lignite seam;
 (b) A pitching bituminous seam? (25)
6. What is creep? How is it caused and how would you deal with a main haulage road in a lignite mine in which creep had set in over a distance of 500 feet? (20)
7. Sketch in detail and describe a room in a seam pitching 30 degrees to the horizontal. Room 18 feet wide, thickness of coal 9 feet 6 inches with good rock roof, but subject to slips at intervals. (30)
8. Describe with sketches how a stable to accommodate 30 horses underground should be constructed and ventilated. (25)
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SECOND CLASS CERTIFICATES.

Marks Obtainable, 100.

Marks Required, 50.

*Paper No. 2.**Time—One and One-half Hours.*

VENTILATION

1. A borehole drilled in the face of a heading situated near the middle of a ventilating district strikes a fault and liberates a strong feeder of CH_4 . Show by means of a sketch how you would arrange the ventilation so that the district could continue working. (25)
2. What are the principal characteristics of the gases CH_4 , CO , and CO_2 ? State under what conditions they are most likely to be found in a mine. (10)
3. If a reading of the water gauge is taken in the fan drift and reads 2 inches, what is the pressure in pounds per square inch producing ventilation? With a total quantity of 50,000 cubic feet of air per minute circulating, what horsepower would be developed? (15)
4. A fall of roof has contracted the area of a portion of the return airway. Inflammable gas can be detected on the flame of a safety lamp in the return air near this point. What precautions would you take to safeguard the workmen engaged in removing this obstruction in the airway? (20)
5. What instructions are necessary regarding the use of safety lamps underground? To whom would you give these instructions? (10)
6. A seam of coal lying at an inclination of 60 degrees is worked on the room and pillar system, rooms being driven up the pitch. Inflammable gas is given off in the workings. Shot-firing is necessary. Show by means of a sketch how you would keep the face of a room properly ventilated. (20)

SECOND CLASS CERTIFICATES.

Marks Obtainable, 100.

Marks Required, 50.

*Paper No. 3.**Time—One and One-half Hours.***EXPLOSIONS, UNDERGROUND FIRES AND INUNDATIONS**

1. In what way does coal dust add to the danger of an explosion in a coal mine? Describe any practical method of rendering coal dust harmless. (25)

2. How are gob fires caused? What precautions would you take to prevent them? (15)

3. A district in a mine is being opened again after being sealed up to put out a fire. Describe how you would proceed with the work having regard to the safety of the workmen. (20)

4. Describe fully, any breathing apparatus you are familiar with suitable for use underground in a vitiated atmosphere. (20)

5. It becomes necessary to seal off a district in a mine to put out a fire which has got beyond control. The mine yields inflammable gas. Describe how you would accomplish this with least risk to the workmen employed. (20)

SECOND CLASS CERTIFICATES.

Marks Obtainable, 100.

Marks Required, 50.

*Paper No. 4.**Time—One and One-half Hours.***MACHINERY**

1. What is meant by the term "factor of safety" as applied to ropes used for hoisting and haulage purposes? If the breaking strain of a hoisting rope is 40 tons, what is the safe working load? (10)

2. What attention should be given the chains connecting a hoisting rope to the cage? Sketch and describe how you would cap the end of a hoisting rope. (10)

3. Describe any device used for preventing the passage of too high a current through an electrical circuit. (15)

4. Explain the action of an injector for boiler feeding. (10)

5. Sketch an arrangement suitable for controlling cars at the head of an incline. (10)

6. Describe and give horsepower of a pump capable of handling 10,000 gallons of water per hour against a head of 300 feet. (15)

7. What are the chief objections to the use of electricity underground for power purposes? (15)

8. Describe the safety appliances adopted to prevent accidents in hoisting shafts. (15)

SECOND CLASS CERTIFICATES.

Marks Obtainable, 100.

Marks Required, 50.

*Paper No. 5.**Time—One and One-half Hours.*

SURVEYING

1. Name and describe briefly the instruments used in making and plotting a mine survey. (15)

2. Define the following terms:

- (a) Magnetic North;
- (b) True North;
- (c) Declination;
- (d) Right Angle. (15)

3. In reading an old mine map which has no scale shown it is found that a certain road measures 2.75 inches. The same road underground measures 550 feet. What is the scale of the map? (15)

4. The body of a mine car is 6 feet 3 inches long by 3 feet 6 inches wide outside measurement. The depth of the car is 21 inches inside measurement. The lumber used is 1½ inches thick. What weight of coal will this car carry loaded level full? (20)

5. What steps would you take to have the roadways in a mine kept straight? (15)

6. Plot the following notes from a mine survey. Scale 100 feet to 1 inch.

Station.	Bearing.	Distance.	
1—2	N. 87° W.	145 feet.	
2—3	N. 24°, 30° E.	207 feet.	
3—4	S. 24°, 30° E.	210 feet.	
4—5	S. 13°, 15° W.	196 feet.	(20)

SECOND CLASS CERTIFICATES.

Marks Obtainable, 200.

Marks Required, 100.

*Paper No. 6.**Time—Three Hours.*

THE MINES ACT.

1. What are the Special Provisions of The Mines Act relating to Overmen? (18)

2. What are the Special Provisions of The Mines Act relating to Underground Work? (20)

3. What are the provisions of the "Rules for the Installation and Use of Electricity in or about Mines" with reference to the use of electricity where inflammable gas is likely to be present? (20)

4. What are the provisions of The Mines Act with reference to ventilation? (17)

5. What are the provisions of The Mines Act with reference to explosives? (23)

6. What are the provisions of the "Rules for the Installation and Use of Electricity in or about Mines" with reference to—

- (a) Signalling;
- (b) Electric lighting of safety lamps? (21)

7. What are the provisions of The Mines Act with reference to manholes and travelling roads? (22)

8. Write out an imaginary report of (a) the inspection of a district in a mine in which inflammable gas has been found, (b) the inspection of machinery, and (c) inspection of shafts and guides, and say what the duties of an Overman are in connection with these reports. (21)

9. What are the Special Provisions of The Mines Act with reference to safety lamps? (20)

10. What are the provisions of The Mines Act with reference to—

- (a) Ladders;
- (b) Stretchers;
- (c) Supply of timber? (18)

WAGES.

The scale of wages paid in the province during the year 1914 remains the same as it was at the end of the year 1913 and is as follows:

OUTSIDE WAGES.

Fire bosses	\$110.00 to \$115.00 per month.
Bottom man	\$2.89 per day, 10 hrs.
Slate pickers (boys)	1.37 per day, 10 hrs.
Slate pickers (men)	2.47 per day, 10 hrs.
Car oilers (men)	2.47 per day, 10 hrs.
Car oilers (boys)	1.65 per day, 10 hrs.
Tally boys	1.37 per day, 10 hrs.
Teamsters	2.89 per day, 10 hrs.
Blacksmith	3.85 per day, 10 hrs.
Blacksmith's helpers	2.90 per day, 10 hrs.
Power-house engineers	3.85 per day, 12 hrs.
Power-house engineers	3.40 per day, 8 hrs.
Fan-men	2.90 per day, 12 hrs.
Hoisting engineers	3.20 per day, 8 hrs.
Hoisting engineers	3.78 per day, 10 hrs.
Hoisting engineers	4.40 per day, 12 hrs.
Tail rope engineers	3.63 per day, 8 hrs.
Tail rope engineers	3.85 per day, 10 hrs.
Endless rope engineers	3.30 per day, 10 hrs.
Box-car loader engineer	3.40 per day, 10 hrs.
Tipple engineer	3.40 per day, 10 hrs.
Screen engine tender	2.65 per day, 10 hrs.
Locomotive engineer	3.40 per day, 10 hrs.
Locomotive switchman	3.00 per day, 10 hrs.
Fireman	2.89 per day, 8 hrs.
Fireman	3.85 per day, 12 hrs.
Fireman's helper	2.65 per day, 10 hrs.
Railway-car helper	2.60 per day, 10 hrs.

Tipple dumper (man)	\$2.89	per day, 10 hrs.
Tipple dumper's helpers	2.64	per day, 10 hrs.
Tipple dumper (boy)	1.65	per day, 10 hrs.
Top cagers	2.64	per day, 10 hrs.
Car repairers	3.40	per day, 10 hrs.
Car repairer's helper	2.90	per day, 10 hrs.
Breaker engineer	3.40	per day, 10 hrs.
Fan fireman	3.40	per day, 12 hrs.
Lampman (depending upon number of lamps and skill of man).....\$2.47 to	2.89	per day, 8 hrs.
Lampman, (depending upon number of lamps and skill of man).....\$2.47 to	3.40	per day, 12 hrs.
Machinists	3.85	per day, 10 hrs.
Machinist's helper	2.90	per day, 10 hrs.
Ashman	2.50	per day, 10 hrs.
Ashman	2.89	per day, 12 hrs.
Wiper (man)	2.89	per day, 12 hrs.
Coupler (man)	2.47	per day, 10 hrs.
Coupler (boy)	1.65	per day, 10 hrs.
Breaker oiler	2.89	per day, 11 hrs.
Washer or tipple oiler	2.89	per day, 11 hrs.
Breaker picker boss	2.89	per day, 10 hrs.
Timber framer	3.40	per day, 10 hrs.
Timber sawyer	2.64	per day, 10 hrs.
Box-car shoveler	2.89	per day, 10 hrs.
Breaker platform boss	2.89	per day, 10 hrs.
Breaker platform men	2.60	per day, 10 hrs.
Breaker screen men	2.47	per day, 10 hrs.
Rock bank men	2.47	per day, 10 hrs.
Dirt bank men	2.47	per day, 10 hrs.
Finisher after box-car loader	2.47	per day, 10 hrs.
All other outdoor labour	2.47	per day, 10 hrs.

BEE HIVE COKE OVENS.

Levelling and drawing (6½ ton charge) per oven.....	\$1.00
Levelling and drawing (5 ton charge) per oven.....	.80
Loading into box or open cars (over 200 tons per month) per ton	.17
Loading into box or open cars (less than 200 tons per month) per ton	.16
Steam locomotive engineer	\$3.40 per day, 10 hrs.
Motorman	3.18 per day, 10 hrs.
Larryman	2.47 per day, 10 hrs.
Plasterers	2.47 per day, 10 hrs.
Carters and cleaners	2.47 per day, 10 hrs.
All other labour	2.47 per day, 10 hrs.

BELGIAN COKE OVENS.

Ram engine man	\$3.40 per day, 10 hrs.
Chargers	2.89 per day, 10 hrs.
Clayers	2.89 per day, 10 hrs.
Drawers	2.89 per day, 10 hrs.
Loaders	2.60 per day, 10 hrs.

BRIQUETTE PLANT.

Engineer	\$3.86 per day, 12 hrs.
Briquetter	3.97 per day, 12 hrs.
Briquetter's helper	3.40 per day, 12 hrs.
Tar melter	2.89 per day, 12 hrs.
Labourers	2.89 per day, 12 hrs.

INSIDE WAGES.

Spotlighter	\$3.30 per day, 8 hrs.
Bratticeman	3.30 per day, 8 hrs.
Bratticeman's helper	2.75 per day, 8 hrs.

Timberman	\$3.30 per day, 8 hrs.
Timberman's helper	3.75 per day, 8 hrs.
Tracklayers	3.30 per day, 8 hrs.
Tracklayer's helper	2.75 per day, 8 hrs.
Motorman	3.05 per day, 8 hrs.
Motorman's helper	2.75 per day, 8 hrs.
Locomotive engineer	3.05 per day, 8 hrs.
Locomotive switchman	2.75 per day, 8 hrs.
Drivers	3.03 per day, 8 hrs.
Drivers (wet places)	3.30 per day, 8 hrs.
Drivers (spike team)	3.50 per day, 8 hrs.
Couplers (men)	2.75 per day, 8 hrs.
Couplers (boys)	1.65 per day, 8 hrs.
Switch boys	\$1.37 to 1.65 per day, 8 hrs.
Door boys	1.10 per day, 8 hrs.
Rope riders	3.03 per day, 8 hrs.
Main and tail rope riders	3.30 per day, 8 hrs.
Pushers	2.75 per day, 8 hrs.
Buckers	2.75 per day, 8 hrs.
Loaders	2.75 per day, 8 hrs.
Miners	3.30 per day, 8 hrs.
Miners (wet places)	3.75 per day, 8 hrs.
Rock miners	3.75 per day, 8 hrs.
Timber handlers	3.03 per day, 8 hrs.
Labourers	2.75 per day, 8 hrs.
Cagers, slope and incline	2.75 per day, 8 hrs.
Cagers, shaft	3.30 per day, 8 hrs.
Machine men	3.75 per day, 8 hrs.
Machine men's helper	3.30 per day, 8 hrs.
Pumpmen	2.75 per day, 8 hrs.
Pumpmen (Dept. Nat. Resources C.P.R.)	3.20 per day, 8 hrs.
Hoistmen	\$3.03 to 3.30 per day, 8 hrs.
Drivers (boys)	\$1.65 to 2.75 per day, 8 hrs.
Grippers	2.75 per day, 8 hrs.
Grippers (boys)	\$1.65 to 1.75 per day, 8 hrs.
Pipe fitter's helper	2.75 per day, 8 hrs.
Pit carriers	\$1.37 to 2.75 per day, 8 hrs.
Clutchmen	3.30 per day, 8 hrs.
Rollermen	2.75 per day, 8 hrs.
Miners on contract average from \$3.50 to	6.00 per day, 8 hrs.

This scale of wages is taken from an agreement made with representatives of approximately seventy per cent. of the men employed in mines in the province and went into force on November 17th, 1911, and will continue until March 31st, 1915.

Your obedient servant,

JOHN T. STIRLING,
Chief Inspector of Mines

THE STEAM BOILERS BRANCH.

Inside Staff—	{ Chief Inspector of Boilers. One Clerk in Charge. One Clerk and Stenographer.
Outside Staff—	{ Five District Inspectors. Three Assistant Inspectors.

Complete returns for the year show increased activity in each of the six districts covered by our inspectors, and although the total revenue from all sources shows a decrease as compared with last year, this in a large measure is attributable to the considerable decrease in the number of applicants coming up for engineers certificates, and a corresponding decrease in the number of permits issued.

It is anticipated that the maximum limit has been reached with respect to income in the way of fees received for the issue of final certificates. The province being well covered by engineers whose certificates are good for life.

Receipts from the inspection of boilers show an increase of \$604.00, a most creditable showing, taking into consideration the fact that a large number of agricultural boilers and contractors outfits were out of commission this year due to crop failures in the south, and financial conditions generally.

Emphasis was laid in the 1913 report of this branch upon the necessity for passing legislative measures covering the inspection of steam heating boilers in all building except private dwellings, and an amendment to Section 2 of The Boilers Act was prepared and placed before the last Legislative Assembly and passed with a slight alteration.

No inspector having been through the Peace River country, for the purpose of inspecting boilers since the year 1908, when only 9 boilers were inspected, it was deemed advisable to engage an inspector to cover this territory this year, the services of Mr. W. D. Watson, a former inspector, being secured for that purpose. He commenced his inspection itinerary at Smith, and from there took in the following places: Sawridge, Grouard, Swan River, High Prairie, Peace River Crossing, Blue Sky, Spirit River, Grand Prairie, Lake Saskatoon, Shaftsbury and Fort Vermilion, inspecting 41 boilers in all.

It was Mr. Watson's intention to return south from Ft. Vermilion via Ft. McMurray and Athabasca Landing inspecting boilers en route, but, owing to delays on account of weather conditions, it was found impossible to do this and get out before freeze-up.

During his trip the inspector examined 26 candidates for engineer's certificates.

He reports some of the boilers were greatly in need of attention and repairs, a number of them being old and carelessly handled; he

also suggested that this district be favoured with better inspection services in the future, as the country is rapidly developing.

With the exception of a month devoted by the five district inspectors to the engineers' Spring examinations, which entailed an expense altogether out of proportion to the results obtained, the outside work of the staff has been very successful, a total of 1,785 certificates were issued to cover boilers inspected. 157 other boilers were inspected but no certificates issued therefor; 13 boilers were condemned as unfit for further service. In addition to the foregoing some 400 heating boilers have been visited, and these in subsequent years will appear on the inspectors' regular returns as revenue producing.

During the months of March and April the regular advertised examinations for engineers were held in 54 points throughout the province, at which 225 candidates were granted certificates. In addition, at the regular examinations which have been held at the respective headquarters of each district inspector, a total of 972 candidates were given certificates.

Certificates were issued to the successful candidates as follows:

First class	9
Second class	45
Third class	182
Traction final	212
Fireman's final	30
Provisional	519
Renewal of provisional	158
Second provisional	42
Total	1197

165 permits have also been issued during the year to owners of boilers in accordance with the provisions of Section 34 of The Boilers Act.

Fees collected from all sources during the year total \$16,495.55.

There was one cancellation of an engineer's certificate for neglect of duty, and one certificate suspended for one year for a similar reason.

Convictions were obtained in 14 cases of prosecution for violation of The Boilers Act.

The four Ford motors in use have again proved their worth, travel mileage aggregating 16,324 miles at an expense of \$1,192.11 or 7 1-3 cents per car mile, as against 8 1-4 cents for 1913.

During the year 131 complete designs for boilers and accessories have been submitted to the department for survey and registration by manufacturers throughout Canada, the United States and Great Britain.

While no fatalities due to boiler explosions have occurred during the year, one engineer lost his life while oiling machinery, another was electrocuted while cleaning out a boiler, the cause supposed to be defective insulation of electric light wire. One fireman was severely scalded by escaping steam due to the blowing out of a door on feed water heater.

The names and addresses of the chief, district and assistant inspectors are given below:

Jos. Buxton.....	Edmonton
David Fraser.....	Edmonton
N. Marshall.....	Lethbridge
E. S. Hodges.....	Medicine Hat
W. Gray.....	Calgary
John Douglas.....	Red Deer
J. F. Cargill.....	Lethbridge
J. H. Mainwaring.....	Edmonton
A. Dick.....	Calgary

A schedule of certificates issued and fees collected. Inspector's annual reports, list of manufacturers, and list of final certificates issued to December 31st, are appended:

	1913	1914
Number of Certificates issued for boilers inspected	1592	1785
Number of advertised examinations for engineers held	66	58
Number of First Class Certificates issued.....	14	9
Number of Second Class Certificates issued.....	33	45
Number of Third Class Certificates issued.....	231	182
Number of Traction Final Certificates issued.....	262	212
Number of Fireman's Final Certificates issued....	19	30
Number of Provisional Certificates issued.....	735	519
Number of Second Provisional Certificates issued..	54	42
Number of Renewals of Provisional Certificates....	161	158
Number of Permits issued.....	317	165

FEES COLLECTED.

	1913	1914
For inspection of boilers.....	\$ 7,701.50	\$ 8,305.00
For special inspection of boilers, etc.....	649.23	591.05
For examination of engineers for Final Certificates	3,013.50	2,512.50
For Provisional Certificates	3,708.00	2,590.00
For Second Provisional Certificates	270.00	200.00
For renewal of Provisional Certificates...	402.50	395.00
For Permits	1,585.00	825.00
For surveys of drawings	1,236.25	1,077.00
	<u>\$18,565.98</u>	<u>\$16,495.55</u>

EXPENDITURE.

For the year ending December 31st, 1914, in connection with the administration of The Boilers Act.. \$31,414.39

A consolidated summary, compiled from the inspectors' reports, showing the total number of defects found in boilers examined during the year:

DEFECTS IN	Hor. Tub.	Hor. Fur.	Ret. Tub.	Loco. F. Box	Vert. Tub.	Water Tube.	Total,
Shell and drum	28	2	1	6	5	5	47
Front tube sheet	6		1	9		1	17
Back tube sheet	5		1	2			8
Top tube sheet					7		7
Bottom tube sheet					4		4
Firebox side sheet (inside)				38	1		39
Firebox side sheet (outside)				11			11
Crown sheet			1	78			79
Saddle sheet				1			1
Inside W. B. sheet				16			16
Outside W. B. sheet							
Back sheet				9			9
Face plate				1			1
Throat sheet							
Foundation and door rings.				9	1		10
Stay bolts			1	37			38
Crown stays				6			6
Longitudinal stays	4						4
Leaking seams	5			5		5	15
Rivets	3			3	7		13
Main flues		1		3			4
Tubes	11	1		28	29	31	100
Hand holes and man holes.	20		1	20	7		48
Studs and bracket (attach)			1	36			37
Safety valves	38		3	76	19	2	138
Steam gauges	15	4	3	48	4		74
Water gauge fittings	51	5	3	86	6	19	170
Blow down	38		8	140	13	4	203
Fusible plug	39	3	1	38	11	5	97
Other fittings	51	8	5	134	14	17	229
Settings	30			1			31
Heavy scale	19			12	3		34
Feed arrangement	17	1	1	43	8	2	72
Steam piping and supports.	27			2	1	2	32
Hand railing for fly wheels	6			1			7
Switchboards, etc.	1			5			6
Total	414	25	31	904	140	93	1607

The following is a complete list of manufacturers whose designs for boilers and boiler accessories have been submitted to and approved by the department.

MANUFACTURERS OF BOILERS.

Canada.

American-Abell Co., Toronto, Ont.
 Bell (Robert) Co., Seaforth, Ontario.
 Beatty (M.) & Sons, Welland, Ontario.
 Berg Manufacturing Co., Toronto, Ontario.
 Caledonian Ironworks, Montreal.
 Canada Iron Corporation, Ltd., Midland, Ontario.
 Canada Foundry Company, Toronto, Ontario.
 Canadian Allis-Chalmers, Ltd., Toronto, Ontario.
 Doty Engine Works, Goderich, Ontario.
 Dominion Bridge Co., Montreal, P.Q.
 Fraser & Chalmers Co., Montreal, P.Q.
 Grand Trunk Pacific Railway Co., Winnipeg, Manitoba.

Goldie & McCulloch, Ltd., Galt, Ontario.
 Inglis (John) Co., Ltd., Toronto, Ontario.
 International Engineering Works, Ltd., Amherst, N. S.
 Jenckes Machine Co., Ltd., St. Catharines, Ontario.
 Leonard (E.) & Sons, London, Ontario.
 Marsh & Henthorn, Ltd., Bellville, Ontario.
 Montreal Locomotive Works, Montreal.
 Matheson (I.) & Co., New Glasgow, N.S.
 Macdonald (The) Thresher Co., Stratford, Ontario.
 Napanee Iron Works, Napanee, Ontario.
 Polson Iron Works, Toronto, Ontario.
 Robb Engineering Co., Amherst, N.S.
 Sawyer-Massey Co., Ltd., Hamilton, Ontario.
 Vulcan Iron Works, Winnipeg, Man.
 Waterous (The) Engine Co., Ltd., Brantford, Ontario.
 White (George) & Sons, Ltd., London, Ontario.
 Waterloo Manufacturing Company, Waterloo, Ontario.

Great Britain.

Babcock & Wilcox, Ltd., London (Canadian Agency, Montreal).
 Fowler (John) & Co., Leeds, Yorkshire.
 Lubecker (The) Machine and Manufacturing Co., London, England.
 Robey & Co., Limited, Lincoln, England.
 Rushton Proctor Co., Lincoln, England.
 Ransomes, Sims and Jeffries, Ltd., Ipswich.

United States.

American Hoist and Derrick Co., St. Paul, Minn.
 Aultman & Taylor Co., Mansfield, Ohio.
 Avery Co., Peoria, Ill.
 Broderick (The) Co., Muncie, Ind.
 Buffalo Steam Road Roller Co., Springfield, Ohio.
 Bucyrus Co., Ltd., Milwaukee, Wis.
 Bigelow Company, New Haven, Conn.
 Browning (The) Co., Cleveland, Ohio.
 Clyde Iron Works, Duluth, Minn.
 Case (J.I.) Threshing Co., Racine, Wis.
 Clark Engine & Boiler Co., Kalamazoo, Mich.
 Duluth Boiler Works, Duluth, Minn.
 Davenport Locomotive Works, Davenport, Iowa.
 Erie City Iron Works, Erie, Pa.
 Emerson Brantingham Co., Columbus, Ind.
 Freeman (S.) & Sons, Racine, Wis.
 Farquhar (A.B.) Co., York, Pa.
 Frost Manufacturing Co., Galesburg, Ill.
 Garr, Scott Co., Richmond, Ind.
 International Boiler Works, East Stroudsburg, Pa.
 Industrial Works, Bay City, Mich.
 Johnson Bros., Ferrysburg, Mich.
 Keystone Driller Co., Beaver Falls, Pa.
 Kelly Springfield Road Roller Co., Springfield, Ohio.
 Leffel (J.) & Co., Springfield, Ohio.
 Marion Steam Shovel Co., Marion, Ohio (Canadian Agents, F. H. Hopkins & Co., Montreal.)
 Muskegon Boiler Works, Muskegon.
 Minneapolis Thresher Co., Hopkins, Minn.
 Nichols & Sheppard Co., Battle Creek, Mich.
 Oil Well Supply Co., Pittsburg, Pa.
 Orr and Sembower, Reading, Pa.
 Porter (H.K.) Co., Pittsburg, Pa.
 Reeves & Company, Columbus, Ind.
 Rumley Co., La Porte, Ind.
 Schwab-Lazotte Co., Milwaukee, Wis.
 Springfield Boiler and Manufacturing Co., Springfield, Ill.

The Browning Engineering Co., Cleveland, Ohio.
 The Thew Automatic Shovel Co., Loraine, Ohio.
 The Titusville Iron Co., Titusville, Pa.
 Union Iron Works, Erie, Pa.
 The Vulcan Iron Works Co., Wilkes-Barre, Pa.

MANUFACTURERS OF BOILER ACCESSORIES. •

Canada.

Babcock & Wilcox, Ltd., Montreal, P.Q.
 Beatty (M.) & Sons, Ltd., Welland, Ont.
 Canadian Fairbanks Co., Montreal, P.Q.
 Engineering Specialties Co., Toronto, Ont.
 Goldie & McCulloch Co., Ltd., Galt, Ont.
 Jenkins Bros., Montreal, P.Q.
 Leonard (E.) and Sons, Ltd., London, Ont.
 McAvity (T.) and Sons, St. John, N.B.
 Morrison (Jas.) and Sons, Brass Mfg. Co., Toronto, Ont.
 Penberthy Injector Co., Windsor, Ont.
 Peacock Bros., Montreal, P.Q.
 Robb Engineering Co., Amherst, N.S.

Great Britain.

Blakeborough & Sons, Brighton, Eng.
 Glenfield and Kennedy Co., Kilmarnock, Scot.

United States.

American Steam Gauge & Valve Co., Boston, Mass.
 Ashton Valve Co., Boston, Mass.
 Ashcroft Manufacturing Co., Chicago, Ill.
 Buckeye Iron & Brass Works, Dayton, Ohio.
 Bordo (L. J.) Co., Philadelphia, Pa.
 Best Manufacturing Co., Pittsburgh, Pa.
 Chapman Valve Manufacturing Co., Indian Orchard, Mass.
 Case (J.I.) Threshing Machine Co., Racine, Wis.
 Crosby Steam Gauge & Valve Co., Boston, Mass.
 Crane Company, Chicago, Ill.
 Industrial Instrument Co., Foxboro, Mass.
 Huyette, (P.B.) Co., Philadelphia, Pa.
 (Submitted by H. L. Pelier & Co., Montreal, P.Q.)
 Jarecki Manufacturing Co., Erie, Pa.
 Kunkle (E.B.) & Co., Fort Wane, Ind.
 Lunkenheimer Co., Cincinnati, Ohio.
 Lonergan (J.E.) & Co., Philadelphia, Pa.
 Marsh (J.P.) & Co., Chicago, Ill.
 Nelson Valve Co., Philadelphia, Pa.
 National Steam Specialties Co., Chicago.
 Ohio Brass Works, Mansfield, Ohio.
 Powell (Wm.) & Co., Cincinnati, Ohio.
 Pittsburg Valve Foundry & Construction Co., Pittsburg, Pa.
 Roe Stephens Co., Detroit, Mich.
 Schafer and Budenberg, Brooklyn, N.Y.
 United States Gauge Co., New York, N.Y.
 Yarnell Waring Co., Philadelphia, Pa.

EDMONTON, January 5, 1915.

JOHN STOCKS, Esq.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report as Chief Inspector of Boilers for the year ending December 31, 1914, in accordance with Section 8 of The Boilers Act.

Detailed reports from the district inspectors covering work in connection with the inspection of boilers give some idea of the increased activity in this branch of the department, a total of 1,942 boilers having been inspected this year as against 1,638 for the year 1913, an increase of 304 boilers.

Referring to Section 12 of The Boilers Act respecting the approval and registration of boilers and power plant designs, also equipment for same: During the year 131 such designs have been surveyed and registered, in addition to the re-survey of révisions to designs already on record. 83 of the designs submitted by the manufacturers covered steam boilers of various types. 42 of boiler accessories, and six were for power plant installations located as follows: Municipal power plant for Town of Coronation; power plant for Town of Leduc; power plant for J. D. McArthur Co., Edmonton; power plant for Brazeau Collieries; power plant for P. Burns Co., Edmonton; heating plant for Arts Building, Provincial University.

Having in mind the number of boilers shipped into the Peace River country since the last inspection through that district in 1908, it was deemed necessary to engage another inspector for the express purpose of again going over this territory, and, in accordance with your instructions, Mr. W. D. Watson, who had charge of the Red Deer district for some years previous to 1913, was temporarily engaged in the month of May last to undertake the work. In October he returned to Smith on the Athabasca, having inspected 41 boilers. I am pleased to say that the entire territory, with the exception of Forts Chipewyan, McKay and McMurray, (which could not be reached owing to lateness of season) has been thoroughly covered by Mr. Watson, and he left this section of the province entirely in accordance with the Act, so far as steam boilers are concerned.

I am pleased to be able to state that no serious boiler accidents have occurred in any plant governed by the Act, within the province during the year.

A number of accidents to low pressure heating boilers have been reported by the inspectors from time to time, several of which have been investigated. In every instance it was found that the boilers carried less than 20 pounds steam pressure, consequently they were not governed by the Act nor subject to compulsory inspection. One very serious case which came to our notice was the overheating of two large horizontal tubular boilers in service at the Calgary General Hospital. These boilers were gas fired, and, owing to a badly designed furnace arrangement, the fire sheets of both were overheated to such an extent as to produce large bulges in the sheets

over the furnace; fortunately the attendant noticed the hot plates giving way, and immediately shut off the gas feed, thus preventing a disastrous rupture.

Of the several accidents to heating boilers that have been investigated, it is noted they were invariably caused by either improper installation, overheating, or careless operation, and taking into consideration the large number of heating plants already in service, and rapidly increasing in number, your attention was drawn to the necessity of some provision being made for a systematic inspection of all such heating boilers by the department. Your willing co-operation in the matter resulted in an amendment to Section 2 of The Boilers Act, which now embraces all steam boilers except such as are used for heating water for domestic purposes, or generating steam solely for the purpose of heating dwellings. Since the passing of the amendment referred to, we have endeavoured to administer the same as far as possible, without adding to the staff.

I have the honour to be,

Your obedient servant,

JAS. BUXTON,

Chief Inspector.

LETHBRIDGE, December 31, 1914.

JOHN STOCKS, Esq.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report for the year ending December 31, 1914, in accordance with Section 8 of The Boilers Act.

After the annual conference of Inspectors held in Edmonton during the month of January was brought to a close, I returned south and began my inspections in the Pass district. This work finished, I commenced to hold the advertised series of Spring examinations at ten different points, starting on March 5th, and concluding the same on the 4th of April. In addition to this series, the regular examinations have been held in the court house at Lethbridge, on the first Saturday in each month throughout the year. A considerable decrease will be noticed in the number of candidates for certificates this year, as compared with previous years, this being accounted for by the fact that there are now in the province a very large number of engineers who hold final certificates good for life.

The number of candidates taking examination for engineer's certificates totalled 102. Twenty-one of these candidates failed to qualify for the class of certificates written for, but were granted papers of a lower grade.

The following is a classified list of the certificates recommended to be issued to engineers:

First class certificates	1
Second class certificates	9
Third class certificates	21
Traction final certificates	28
Provisional certificates	37
Renewal of provisional certificates	4
Locomotive certificates	2
Total	<u>102</u>

One engineer's certificate has been cancelled, in accordance with the provisions contained in Section 50 of The Boilers Act.

I have inspected 195 boilers during the year, the types and condition of same being as follows:

Type of boilers inspected:

Locomotive	123
Horizontal tubular	18
Vertical fire tube	10
Water tube	16
Robb Mumford	12
Steel heating boilers	11
Cast iron heating boilers	5
	<u>195</u>

Condition of boilers inspected:

Good	132
Fair	52
Moderate	9
Condemned	2
Total	<u>195</u>

Boilers inspected and certificates issued therefor.....	176
Boilers inspected for which no certificates issued.....	19

In addition to inspecting high pressure boilers, I have, during the year, visited 56 low pressure heating boilers in different parts of the district, and found in a large number of cases that the boilers had not even been cleaned out for some years, consequently they were not in good working condition, a state of affairs due largely to the fact that the attendants in charge have, in addition to caring for the boilers, many other duties to perform, which occupies the major portion of their time, consequently the boilers in many instances are somewhat neglected. In most cases my recommendations and suggestions as to what was necessary for safer and more efficient operation have been carried out, with the result that the owners have been able to secure more steam for less coal and labour.

With respect to heating boilers. There appears to be a general opinion existing amongst those directly interested that anyone is capable of properly caring for same, but recent boiler statistics prove this theory to be erroneous; an instance in this district furnishing a case in point, which resulted in the destruction of a horizontal tubular boiler 54" diameter, by 12'-0" in length. The janitor of the building, who had charge of this boiler, was occupied with other duties which kept him busy for a considerable time, and on his

return to the boiler, he found there was no water in the gauge glass; he then turned on the feed, but on hearing a loud report immediately shut it off again. There is no doubt that a very serious accident was miraculously escaped in this instance, as the lower portion of the boiler must have been red hot, every rivet in the circular and longitudinal seams was sprung, as well as all the tubes.

My attention was also drawn to another boiler, in which a fusible plug had been fitted in accordance with my instructions. This plug was melted out three times in one week, obviously the result of inattention to the boiler.

The regular routine of boiler inspection work has been considerably retarded by the large amount of office work requiring my attention during the year, a large amount of correspondence dealing with heating plants having had to be handled in addition to the usual details incidental to high pressure boilers, etc.

51 permits have been issued during the year to owners of plants, under Section 34 of The Boilers Act, to enable them to keep their plants in operation until such time as the services of qualified engineers could be secured.

I have no cases to report covering violation of sections of the Act necessitating prosecution.

I am pleased to be able to state that there have been no accidents entailing personal injury to anyone connected with the operation of boilers and engines in my district during the year.

I have the honour to be, Sir,

Your obedient servant,

NAT MARSHALL,

*Inspector of Boilers,
District No. 1.*

LETHBRIDGE, December 31, 1914.

JOHN STOCKS, ESQ..

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir.—I have the honour to submit to you my annual report in connection with my duties as assistant inspector of boilers, No. 1 district, for the year ending December 31, 1914, in accordance with Section 8 of The Boilers Act.

In addition to the usual work in connection with inspection of high pressure boilers, considerable time has been occupied with low pressure heating boilers. I have visited 88 of these in all, and find that heretofore there seems to have been little or no system employed in fitting up these boilers, and it has been my policy throughout, when dealing with these cases, to endeavour to convince the owners of the absolute necessity for equipping their boilers with fittings which will eliminate as far as possible all danger of accident. Results so far tend to show that advice along these lines has been

appreciated, as, during the past year, I have inspected 63 heating boilers which were fully equipped with fittings conforming to the requirements of the regulations.

The total number of boilers inspected by me during the year is 306, the condition of same being as follows:

Good	236
Fair	60
Moderate	9
Condemned	1
Total	306

The foregoing comprises the following types:

Locomotive	153
Horizontal tubular	54
Water tube	11
Robb Mumford	8
Vertical fire tube	16
Dry back marine	1
Heating boilers, steel	25
Heating boilers, cast iron	38
Total	306

I have made three special inspections of boilers, and as these were made by request of the owners, all expenses incurred were paid by them, in accordance with the requirements of Section 6 of the Act.

I recommended the issue of provisional certificates to two candidates.

Five permits were granted during the year to owners of plants, who were unable to immediately secure the services of qualified engineers, as provided in Section 34 of The Boilers Act.

During the Summer and Fall months, in the course of inspection, I experienced great difficulty in collecting fees in some parts of the district, this being accounted for entirely by the exceptionally dry season which prevailed over the southern part of the province, and the consequent low financial circumstances of the various owners of steam boilers.

I have the honour to be, Sir,

Your obedient servant,

J. F. CARGILL,

*Assistant Inspector of Boilers,
No. 1 District.*

CALGARY, January 8, 1915.

JOHN STOCKS, Esq.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report for the year 1914, as inspector of boilers, district No. 2 in accordance with Section 8 of The Boilers Act.

After attending the Annual Conference of Inspectors held in Edmonton during the month of January, I returned to Calgary and spent the month of February inspecting boilers, leaving that city for Nanton on March 2nd to commence an itinerary for the purpose of holding examinations of candidates for engineer's certificates at different points throughout the district, finishing this work at Drumheller on March 26th. In addition to these advertised Spring examinations, candidates have been examined regularly on the first Saturday in each month throughout the entire year, in the public works office at Calgary.

The following summary will show the total number of certificates recommended during the year, specifying the class of certificate issued:

First class certificates	6
Second class certificates	10
Third class certificates	54
Traction final certificates	31
Fireman's final certificates	16
Provisional certificates	130
Renewal of provisional certificates	36
Total	<u>283</u>

The following is a summary of boilers inspected by me during the year, and condition of same at the time of inspection:

In good condition	85
In fair condition	38
In bad condition	1
Condemned	<u>2</u>
Total	126

Types and number of each type inspected:

Horizontal tubular	38
Water tube	13
Lancashire	1
Robb Mumford patent	1
Vertical fire tube	19
Marine dry back	2
Locomotive	49
Vertical submerged type	<u>1</u>

Boilers inspected and certificates issued therefor	124
Boilers inspected and no certificates issued therefor	<u>2</u>

A great amount of time has been devoted this year to the inspection of boilers, both old and new, belonging to the various oil companies operating in this district, and the extraordinary large number of personal inquiries at the office here relative to the regulations, new installations, changes to existing plants, particularly heating plants since the amendment to The Boilers Act in connection therewith, have, together with a large number of mailed inquiries, taken up an enormous portion of my time, which otherwise could have been spent on inspection work outside the city.

I have to report two serious accidents to boilers, which fortunately, were not attended by loss of life. In the first case the bottoms of the shells of two horizontal high pressure boilers became

overheated due to scale accumulating on the inside of the plates and an excessive gas fire being burned underneath. The plates bulged downwards 2½ inches, but the damage was noticed and the gas shut off, otherwise a complete explosion might have been the result. No evidence was brought forward to prove negligence on the part of the engineers, consequently no action could be taken against them.

The second accident happened to two horizontal heating boilers carrying 20 pounds pressure in one of the public schools here, and demonstrated the importance of having these boilers equipped with regulation safety valves. The gas was shut off the boilers in the evening, and on the following morning the janitor found the six burners under each boiler burning and operating at full pressure while the steam was roaring out of the safety valves. He immediately shut off the gas and during the day opened up the boilers and found there was only 8 inches of water left in each boiler. The only visible damage done was the springing of the centre circumferential seam on one boiler. This was caulked and tested, but no defects have developed since.

Thirty-one permits have been issued during the year to employers under the provisions of Section 34 of the Act to cover emergency cases where the services of qualified engineers could not be immediately secured.

I have no cases to report respecting the violation of the Act in connection with illegal operation of boilers.

I am pleased to be able to report that there have been no cases of either loss of life or personal injury to anyone during the year, in connection with the operation of boilers or engines in this district.

I have the honour to be, Sir,

Your obedient servant,

WM. GRAY,

District Inspector of Boilers.

CALGARY, January 7, 1915.

JOHN STOCKS, Esq.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report for the year 1914, as assistant inspector of boilers, Calgary district No. 2, in accordance with Section 8 of The Boilers Act.

The early part of the year was taken up inspecting boilers in the city of Calgary, including heating boilers of the public schools and other large public buildings. The Summer and Fall months were devoted to the inspection of boilers operating at the various oil fields west of Calgary, and the agricultural boilers throughout the entire Calgary district, travelling being done by rail whenever possible, and by livery teams to points not touched by railway.

Several special inspection trips have been made during the year, including one to a point in British Columbia, made at the special request of a Bassano contracting firm.

The number of boilers inspected during the year totals.....	350
Total number of inspection certificates issued	328
Boilers inspected and no certificates issued	22

Condition of boilers inspected:

Good	248
Fair	92
Bad	10

Different types of boilers inspected:

Locomotive type	212
Horizontal tubular	58
Return flue	6
Vertical fire tube	44

I have the honour to be, Sir,

Your obedient servant,

A. W. DICK,

*Assistant Inspector of Boilers,
District No. 2.*

RED DEER, January 24, 1915.

JOHN STOCKS, Esq.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report for the year ending December 31, 1914, in accordance with Section 8 of The Boilers Act.

Immediately after the close of the Inspectors' Conference held at Edmonton during the month of January, I proceeded to inspect the stationary boilers in the towns of Lacombe, Ponoka, Wetaskiwin, Camrose and Gwynne, after which I started out to hold the advertised series of Spring examinations for engineers at 16 different points throughout my district, finishing up at Red Deer on April 4th. after examining a total of 110 candidates. This work concluded, I made a special trip to the Brazeau Collieries at Nordegg, for the purpose of inspecting contractor's outfit and the mine boilers at that place, and on my return to Red Deer, the balance of the month of April was devoted to the inspection of boilers in and around that city.

During the month of May I inspected the few boilers situated between the Calgary and Edmonton railway line and the Red Deer River east, (which I had been unable to finish in the Fall of 1913) going as far south as Lake View and finishing at Content. Crossing the river at the latter place, I made straight for Coronation, and from there worked south to township 30 and east to the border, inspecting all boilers as far north as township 48 and west from the first meridian to Moyerton, thence south to Edgerton, westerly from there to Wainwright, thence south-west to Stettler inclusive. The foregoing itinerary occupying my time up to the end of October.

The country south and east from Coronation was very dry, and as a consequence, much time was lost in securing water to enable me to apply hydrostatic test to the boilers; travelling however was good, and this in a measure compensated for the time lost. In the early part of October, I had to make two special trips to inspect new plants that had been installed, one being the Coronation power plant, and the other at the Brazeau Collieries, Limited, Nordegg.

During the month of November and the early part of December I inspected the boilers west of the Calgary and Edmonton railway line, and as far south as township 30, also west to the Red Deer river, though there still remain about 12 boilers in this part of the district, which could not be inspected owing to very bad travelling conditions, cold weather and short days. It is my intention to inspect these immediately after finishing the stationary boilers situated within the towns on the Calgary and Edmonton line in my district.

I am pleased to state that the workmanship on all new boilers coming under my notice this year has been good.

A total of 246 boilers were inspected by me during the year, a summary of their condition being as follows:

Good	158
Very fair	68
Fair	17
Condemned	3

Type and number of each inspected:

Loco firebox	183
Horizontal tubular	42
Robb Mumford	3
Vertical fire tube	10
Return flue	6
Vertical submerged tube	2

Boilers inspected for which certificates were issued.....	239
Boilers inspected for which no certificates were issued.....	4
Boilers inspected and condemned	3

The number of men examined for engineer's certificates during the entire year totalled 238. Of this number 213 qualified for the class examined for, 25 failed but 16 of them were granted certificates of a lower grade, the balance (9) being turned down for a period of twelve months.

Following is a summary of the certificates recommended to be issued:

Second class certificates	4
Third class certificates	19
Traction final certificates	47
Stationary provisional certificates	13
Traction provisional certificates	100
Renewal of provisional certificates	46
Total	229

Seventeen permits were issued under the provisions of Section 34 of The Boilers Act, to enable employers to keep their outfits in operation until such time as they could obtain the services of duly certificated engineers.

I have no accidents to report in connection with the operation of boilers and engines during the past year, but the report in con-

nection with an accident which occurred in the fall of 1913, to the fireman of the Waterloo traction engine owned by the Waskasoo Threshing Syndicate, of Penhold, had to be held back in detail from my 1913 report, consequent upon the great difficulty experienced in securing report from the syndicate regarding the accident. I have since ascertained that at the time of the accident, the fireman was oiling the engine while standing on top of the boiler, and was caught in the fly wheel, with the result that he had his arm torn off. My experience leads me to conclude that the average traction engineer fails to realize the great danger arising from anything projecting from a revolving shaft, as in several cases I have found collars and sheaves pinched with setbolts projecting fully an inch, and in one particular instance I found a setbolt made from a railway track bolt which projected fully three inches. In every such case, these have been ordered to be replaced by countersunk setbolts.

I have to report seven cases of prosecution for violation of Sections 33 and 35 of The Boilers Act, convictions being obtained in each instance for illegal operation of boilers by uncertified men.

I have the honour to be, Sir,

Your obedient servant,

JOHN DOUGLAS,

Inspector of Boilers,

District No. 3.

EDMONTON, January 30, 1915.

JOHN STOCKS, Esq.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report for the year ending December 31, 1914, as required by Section 8 of The Boilers Act.

After the close of the Annual Meeting of Inspectors which took place in January, I started out to hold a series of advertised Spring examinations at 15 different points in the district, to accommodate candidates desirous of qualifying for engineer's certificates, finishing the series at St. Paul des Metis on April 8th. In addition to these, the regular examinations have been held in the Orange Hall, Edmonton South, on the first Saturday in each month throughout the year, at which a total of 399 candidates were examined. These are classified as follows:

For First class certificate	4
For Second class certificate	20
For Third class certificate	76
For Traction final certificate	79
For Fireman's final certificate	7
For Provisional certificate	161
For Renewal of provisional certificate	24
	371
Failed to qualify	28
Total	399

It may be of interest to note that the total number of candidates coming forward for examination at the 15 outside places aggregate only 57, while 352 were dealt with at the regular monthly examinations in South Edmonton, an average of nearly 30 each month, which would indicate that the Spring examinations could be eliminated, except in the most outlying parts of the district, as railroad facilities now make Edmonton easy of access, and I find that many of the candidates who have business in the city, elect to transact same at a time when they can also take examination for certificate.

The number of boilers inspected during the year total 140, types and condition of same being as follows:

Horizontal tubular	46
Loco firebox	24
Vertical	41
Furnace tubular	4
Return tubular	5
Water tube	20
Total	140

Condition of boilers:

Good	94
Fair	40
Poor	4
Condemned	2
Total	140

31 new boilers have been installed and inspected for the first time this year, a very noticeable feature in connection with these boilers and their installation being the close attention given by the manufacturers to the requirements of Alberta Regulations governing the construction and inspection of boilers, very few changes now being necessary. In fact, steam users generally stipulate when negotiating for the purchase of boilers, that they must be of a type of design approved by the department, properly installed and pass inspection before the purchase price is paid. The manufacturers are now fully alive to the importance of supplying to purchasers in this province, only such boilers and fittings therefor as will be entirely satisfactory in every particular.

A very considerable portion of my time this year has been devoted to inspecting heating plants in large buildings throughout the city, and while in many cases these were not shown on my weekly returns, consequent upon low pressure boilers being exempt from the Act previous to October 22nd, 1914, the results obtained prove that the time was well spent in the interest of public safety, as conditions revealed proved in no small number of cases, the absolute necessity for having these boilers made subject to compulsory inspection under the Act. I have endeavoured at all times, when visiting these plants, to instruct all concerned respecting changes necessary both in the boiler and the method of operating same, my suggestions being invariably acted upon, and I feel sure that the department may reasonably look for a gradual and lasting improvement in these plants from this time forward.

One new boiler was shipped into the province which was not accepted, owing to its not having been built in accordance with the regulations.

One old boiler was found after inspection to be unfit for further service, and was therefore condemned.

19 permits have been issued during the year, in accordance with Section 34 of The Boilers Act.

There have been no cases of boiler explosion in my district during the year, but I have to report that two fatal accidents happened. One engineer being caught in the machinery while oiling same, the other being a case where the engineer was electrocuted while cleaning out the boiler. One fireman was also severely scalded through the blowing out of a door on a feed water heater.

I have no cases to report relative to violation of the Act necessitating prosecution.

I have the honour to be, Sir,

Your obedient servant,

DAVID FRASER,

Inspector of Boilers,

District No. 4.

EDMONTON, January 11, 1915.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report as assistant inspector of boilers in the Edmonton district, for the year ending December 31, 1914, as required by Section 8 of The Boilers Act.

During the month of January I inspected several boilers in Edmonton and the Tofield district, and on February 2nd left Edmonton to inspect all outfits west of Entwistle on the line of the Grand Trunk Pacific Railway, including the Brazeau branch. From March to the middle of May, my time was occupied inspecting boilers in and around Edmonton, also in the district west of Ledue between the Saskatchewan River and the south boundary line. After this, I left on an inspection itinerary extending until the end of November, taking in all boilers located in that portion of the district lying between the south shore of the Saskatchewan River and the Grand Trunk Pacific Railway, east of Edmonton. The month of December being devoted to boilers located south-east of Edmonton.

The number of boilers inspected during the year total 273, condition of same being as follows:

Good	191
Fair	79
Poor	3
Total	273

Boilers inspected and certificates issued therefor.....	272
Boilers inspected and no certificates issued therefor.....	1

In many instances, repairs and changes on boilers had to be ordered, which in most cases were attended to by the owners without question, they being satisfied that same were necessary to ensure safety and more efficient operation.

I recommended the issue of provisional certificates to 12 candidates for engineer's certificates, and the renewal of 6 of the same class for engineers already registered as the holders of provisionals.

9 permits have been granted by me during the year to owners of plants who were unable to secure the services of qualified engineers. These were issued under the provisions of Section 34 of The Boilers Act.

I have to report three cases of prosecution for illegal operation of boilers, convictions being obtained in each case.

I have no cases of fatality or personal injury to report, in connection with the operation of boilers or engines.

I have the honour to be, Sir,

- Your obedient servant,

JOHN H. MAINWARING,

*Assistant Inspector of Boilers,
District No. 4.*

EDMONTON, December 31, 1914.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—I have the honour to submit to you my annual report in accordance with the requirements of Section 8 of The Boilers Act, covering my work as inspector of boilers for the year ending December 31, 1914.

In the month of May, I was advised of my re-engagement by the department, for the purpose of undertaking an extended inspection trip through the northern portion of the province, and after outfitting in Edmonton, I left by the E. D. and B. C. Railway for Smith, at which point inspection work commenced. I then proceeded to Sawridge, Grouard and High Prairie, taking in all the boilers in these districts. Finding it would be impossible to travel to Grand Prairie via Sturgeon Lake, I decided on the Peace River Crossing route by way of Dunvegan and Spirit River to Grand Prairie City, doing all necessary work in the several districts enroute. Continuing to Lake Saskatoon and Beaver Lodge, from whence I returned to Peace River Crossing over practically the same route. On arrival at the Crossing, I found that certain very necessary repairs which had been ordered to be made to boilers in the Grouard district had not received attention, and this necessitated my going over the locality a second time to insist on instructions being carried out. After this, it was my intention, as per your instructions, to continue northward to Fort Vermilion, thence to Fort Chipewyan, Fort McKay and Fort McMurray, but, finding the work in these several districts would necessitate my leaving the regular transports at each point, and proceed on the boat following, the short length of the season

made this impossible, I was compelled to omit the three last named places from my itinerary, as to have arranged transportation for a special trip would mean an expense altogether too prohibitive. I therefore made the trip from the Crossing to Fort Vermilion by row boat, arriving there on September 27th, and after inspecting all the boilers in the vicinity, returned by Hudson's Bay steamer to the Crossing, thence by team to Grouard, Sawridge and Smith on the Athabasca River, from the latter place I took up inspection work on the south side of the Athabasca, finishing the year's work at Morinville about the middle of December.

During the time I was away, examinations of candidates for engineer's certificates were held at Grouard, Peace River Crossing and Spirit River; several applicants were also dealt with individually in the Grand Prairie district from time to time, the reason for not holding an examination there being due to my inability to get the men together on any given date.

31 candidates in all were examined for engineer's certificates, my recommendations for same being as follows:

Final certificates	7
Provisional certificates	15
Renewal of provisional certificates	4
Failed to qualify	5
Total	31

The following is a list of boilers inspected, and the condition in which they were found:

In good condition	43
In very fair condition	18
In fair condition	7
Total	68

Boiler certificates issued at the time of inspection.....	63
Certificates held and issued after repairs to boilers had been completed	5

Several of the boilers in the north country were found to be in great need of attention, many of them were old when first taken into the country and have been carelessly handled ever since, judging from the condition in which I found them.

The rapidity with which the northern country is developing demands a more regular inspection of the boilers located so far north, the number of which will no doubt continue to increase from year to year, and some provision should be made whereby candidates for engineer's certificates could take examination without having to come to Edmonton for that purpose.

I was compelled to lay information against two persons for contravention of the Act, one under Section 32 for non-payment of fees, which have now been recovered. The second case, being for illegal operation, has not yet been called as the defendant has evidently left the locality.

I have no cases to report of either boiler explosion or personal injury to anyone in connection with the operation of boilers or engines.

I have the honour to be, Sir,

Your obedient servant,

W. D. WATSON,

Inspector of Boilers,

District No. 5.

MEDICINE HAT, ALTA., December 31, 1914.

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,
Edmonton, Alberta.

Sir,—I have the honour to submit my annual report as inspector of boilers, district No. 6, Medicine Hat, for the year 1914, in accordance with Section 8 of The Boilers Act.

At the beginning of the year, I attended the annual Conference of the District Inspectors at Edmonton, returning to Medicine Hat at the end of January to resume routine work, and arrange for the holding of Spring examinations of candidates for engineer's certificates at various points in the district as advertised. In addition to the advertised examinations held in the outlying parts of the district, I have examined candidates on the first Saturday in each month throughout the year, in the court house building, Medicine Hat.

A total of 79 candidates were examined during the year, 74 being recommended for certificates, one failed, and four others were turned down for lack of experience. Following is a summary showing the various classes of certificates recommended to be issued to successful engineers:

First class certificates	1
Second class certificates	2
Third class certificates	14
Traction final certificates	15
Fireman's final certificates	3
Provisional certificates	40

One operating engineer in the district was found guilty of violating The Boilers Act, and had his certificate cancelled in accordance with the provisions of Section 49 thereof.

A total of 238 boilers (including 75 heating boilers) were inspected during the year. Their types and condition being as follows:

Horizontal tubular	36
Loco firebox	88
Vertical fire tube	27
Water tube	5
Air cylinder	7

Heating boilers:

Horizontal tubular	21
Loco firebox	2
Cast iron	49
Water tube	2
Vertical	1

Details of condition:

Good	184
Very fair	36
Fair	14
Condemned	3
Undergoing repairs	1

Total 238

Boilers inspected for which certificates were issued..... 193

The number of boilers inspected during the year does not represent the entire available power in the district, many of the

contractors' boilers not having been used which otherwise would have been inspected, and the same may be said of a large number of agricultural boilers not operated owing to crop failures.

Six special inspections were made at the request of owners. Expenses and fees incidental thereto being collected as per Section 6 of the Act.

As previously mentioned, I have inspected 75 heating boilers of various types during the year, and the conditions as revealed in some of these plants fully demonstrated the absolute necessity of the department taking such action as led to the amendment of Section 2 of The Boilers Act, which passed through the Legislative Assembly at the last session, thereby bringing heating boilers in all public buildings under compulsory inspection.

I have one accident to report, namely, the fracture of a cast iron heating boiler, resulting in an entire wreck of this unit. Investigation showed the cause to be due to leaky connections and inefficient operation of the boiler. Fortunately no person was injured.

17 permits were issued during the year in accordance with the provisions of Section 34 of the Act, in order to help out employers who were unable to at once secure the services of qualified engineers.

There have been no cases of either loss of life or personal injury to anyone in this district during the year, in connection with the operation of boilers and engines.

I have no cases of prosecution to report.

I have the honour to be, Sir,

Your obedient servant,

E. S. HODGES,

*District Inspector of Boilers,
District No. 6.*

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
FIRST CLASS			
Archibald, Harry P.	Lethbridge	*24	Aug. 15, 1900
Altham, George H.	Lethbridge	23	Apr. 8, 1908
Aitken, Robert C.	Edmonton	15	June 29, 1907
Alexander, Harry G.	Edmonton	43	Apr. 13, 1910
Brisette, Narcisse	Morinville	*15	Mar. 28, 1889
Buxton, Jos.	Calgary	*35	Aug. 29, 1901
Birkett, Holland G.	Cardston	9	Sept. 5, 1906
Briggs, Thos. L.	Calgary	10	Sept. 27, 1906
Birrell, Andrew D.	Nanton	26	Aug. 28, 1908
Banks, Henry H.	Macleod	31	Dec. 14, 1908
Broughton, John Wm.	Red Deer	34	Mar. 17, 1909
Bailey, Hy. Chas.	Edmonton	50	Feb. 11, 1911
Blackburn, Robt. Neale	Edmonton	57	Feb. 10, 1912
Brown, Robt.	Lundbreck	69	Jan. 15, 1913
Benson, Frank H.	N. Edmonton	78	May 3, 1913
Cross, William	Calgary	*2	Mar. 28, 1899
Cooper, Watt	Canmore	6	Aug. 11, 1906
Caldwell, Robert	Edmonton	*41	Oct. 16, 1903
Cross, Isaac E.	Ponoka	*47	Oct. 15, 1904
Cope, Cuthbert E.	Edmonton	24	Apr. 22, 1908
Christie, Alexander G.	Exshaw	19	Jan. 20, 1908
Collard, Albert N.	Moose Jaw	21	Mar. 26, 1908
Carruthers, J. A.	Calgary	51	May 26, 1911
Cunningham, Wm. J.	Calgary	62	Apr. 26, 1912
Cooke, Robert Pears	Edmonton	66	June 21, 1912
Cargill, John F.	Kipp	72	Nov. 10, 1913
Davidson, James	Edmonton	38	Sept. 13, 1909
Davey, Edward	Medicine Hat	44	Apr. 25, 1910
Defieux, Charles Albert	Edmonton	65	June 17, 1912
Dick, Archibald	Lethbridge	64	May 18, 1912
Donnelly, James	Bellevue	77	Apr. 23, 1913
Douglas, John H. W.	Red Deer	70	Jan. 15, 1913
Downing, Augustus	Calgary	86	Apr. 21, 1914
Evans, Dan	Edmonton	*12	Mar. 28, 1899
Ewing, David	Strathcona	36	May 3, 1909
Edwards, William	Lethbridge	48	Nov. 7, 1910
Evans, Harry W.	Anthracite	80	July 10, 1913
Elderkin, Wm. W.	Calgary	91	Aug. 22, 1914
Fraser, David	Strathcona	*20	Oct. 9, 1899
Finch, Theodore S.	Raymond	5	Aug. 10, 1906
Frieman, Manfred	Lethbridge	89	June 17, 1914
Gale, Ernest A.	Calgary (dup.)	29	Dec. 11, 1908
Goellnight, Leonard E.	Hillcrest	40	Mar. 30, 1910
Gray, Adam S.	Calgary	82	Nov. 19, 1913
Gray, William G.	Lethbridge	60	Mar. 14, 1912
Griffiths, Alf. J.	Macleod	68	Dec. 17, 1912
Hindsmarsh, Wm.	Calgary	41	Apr. 11, 1910
Hubbard, Sydney T.	Edmonton	*46	Apr. 18, 1904
Heist, Wm. E.	Edmonton	*36	Dec. 18, 1901
Hobson, Francis W.	Strathcona	*50	Apr. 1, 1905
Hill, John	Edmonton	25	June 25, 1908
Hargreaves, Thos. J.	Hillcrest	55	Sept. 9, 1911
Higgins, Alex.	Lethbridge	59	Mar. 14, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
First Class—Continued.			
Hodges, Elmer S.	Medicine Hat	73	Mar. 14, 1913
Holmes, Walter C.	Calgary	74	Apr. 21, 1913
Haddock, Sidney G.	Edmonton	71	Jan. 24, 1913
Henry, Walter F.	Mountain Park	88	Apr. 27, 1914
Isaac, Wm.	Calgary	14	June 20, 1907
Jackson, John A.	Strathcona	*25	Oct. 23, 1900
Jones, Herbert W.	Bellevue	30	Dec. 11, 1908
Jacob, Arthur	Royal View	75	Apr. 23, 1913
Kelly, John	Edmonton (no record)		Dec. 3, 1905
Kearsley, George	Edmonton	8	Sept. 5, 1906
Lunn, John T.	Edmonton	*53	May 26, 1905
Le Bas, Leopold C.	Calgary	90	June 20, 1914
Moore, George	Frank	*55	July 21, 1905
Marshall, James Wm.	Calgary	20	Jan. 20, 1908
Marshall, Nathaniel	Edmonton	32	Feb. 7, 1909
Mudie, Alf. H.	Diamond City	54	Aug. 24, 1911
Mainwaring, John H.	Edmonton	58	Feb. 23, 1912
Murray, James H.	Bankhead	87	Apr. 21, 1914
McCall, James F.	Calgary	7	Aug. 11, 1906
McFee, Norman	Red Willow	*48	Nov. 22, 1904
McNaughton, Peter	Edmonton	*21	Oct. 9, 1899
McMillan, Hugh A.	Edmonton	47	Oct. 22, 1910
McMahon, William	Taber	67	Dec. 17, 1912
McCulloch, Wm. L.	Calgary	81	July 15, 1913
Niven, Robert	Lethbridge	*23	July 28, 1900
Noble, Alex. R. J.	Edmonton	92	Nov. 19, 1914
O'Donnell, John E.	Edmonton	37	July 5, 1909
Oliver, Ernest H.	Calgary	2	Apr. 30, 1906
Ritchie, Wm. James	Canmore	4	May 15, 1906
Rice, John H.	Calgary	1	Apr. 30, 1906
Reid, Arthur	Lethbridge	39	Jan. 22, 1910
Richardson, Mathew C.	Kipp	56	Nov. 17, 1911
Ray, Arthur Robert	Edmonton	83	Dec. 17, 1913
Scott, John	Lethbridge	*14	Mar. 28, 1899
Stapely, Tobias B.	Edmonton	*45	Apr. 18, 1904
Stafford, David G.	Coleman	35	Mar. 30, 1909
Scott, James	Lille	22	Apr. 7, 1908
Scott, Robert	Calgary	42	Apr. 11, 1910
Simpson, William	Coleman	52	June 20, 1911
Searle, William	Coal City	53	July 13, 1911
Strom, Theodore	Calgary	63	Apr. 30, 1912
Smith, David H.	Calgary	84	Feb. 19, 1914
Stockdale, Thos. D.	Lethbridge	85	Mar. 25, 1914
Turgeon, Cleophas	Edmonton	*5	Mar. 28, 1899
Taylor, George R.	Strathcona	*11	Mar. 28, 1899
Turner, Ornelo H.	Calgary	*34	July 1901
Tanner, Harry P.	Taber	18	Dec. 26, 1907
Todd, William	Edmonton	33	Mar. 4, 1909
Tames, Edward	Edmonton	61	Apr. 25, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
First Class—Continued.			
Taylor, Gilbert	Edmonton	79	May 3, 1913
Verdon, Jos. B.	Calgary	49	Nov. 13, 1910
Watson, Wm. D.	Bankhead	3	May 15, 1906
Watson, John T.	Calgary	13	June 7, 1907
White, E. Lionel	Calgary	12	Apr. 6, 1907
Watson, James S.	Bankhead	46	Sept. 23, 1910
SECOND CLASS			
Anderson, C. J. B.	Calgary	*109	Feb. 7, 1901
Angus, Robert	Angus Ridge	*160	Oct. 2, 1901
Alderson, Robert	Coleman	126	Apr. 22, 1908
Adair, Fred. D.	Edmonton	30	May 10, 1906
Allworth, E. Mortimer	Okotoks	81	June 19, 1907
Anderson, Andrew	Calgary	208	Aug. 15, 1910
Aitkin, David	Lethbridge	212	Sept. 12, 1910
Antrobus, William	Edmonton	260	Nov. 17, 1911
Aitken, James	Lethbridge	341	Mar. 10, 1913
Adamson, Frederick J.	Coalhurst	363	Dec. 16, 1913
Brisette, Louis	Morinville	193	Apr. 13, 1910
Bradden, Wm. T.	Strathcona	194	Apr. 13, 1910
Blamont, Antonio	Edmonton	329	Nov. 23, 1912
Brice, Henry B.	Calgary	207	Aug. 8, 1910
Bawtinheimer, George H.	Red Deer	*7	Sept. 4, 1899
Biery, Charles	Strathcona	*32	Mar. 9, 1900
Blatchford, K. A.	Edmonton	*88	Oct. 23, 1900
Blain, J. W.	Strathcona	*106	Dec. 31, 1900
Bannerman, James A.	Red Deer	*162	Dec. 18, 1901
Brownlow, Hy. A.	Lacombe	*163	Dec. 23, 1902
Brewster, W. A.	Edmonton	*195	May 13, 1903
Bowden, H. S.	Strathcona	*198	May 13, 1903
Ballantyne, Robert	Calgary	*229	Mar. 14, 1904
Barnhouse, William	Edmonton	*244	May 26, 1904
Burkholder, Hy J.	Strathcona	*267	Oct. 15, 1904
Beamish, Crandell	Didsbury	118	Apr. 22, 1908
Bentley, Emerson D.	Medicine Hat	17	Apr. 11, 1906
Burger, M. E.	Strathcona	2	Sept. 18, 1905
Baird, James B.	Red Deer	116	Apr. 14, 1908
Bryson, Wm. J.	Medicine Hat	178	Dec. 4, 1909
Blair, William	Lille	25	Apr. 30, 1906
Berry, Stephen	Taber	127	Apr. 22, 1908
Brill, George	Red Deer	161	Aug. 24, 1909
Brown, David	Calgary	75	May 4, 1907
Bruce, George	Lethbridge	114	Apr. 8, 1908
Bagley, Wm. S.	Edmonton	156	June 18, 1909
Broadwell, Amos	Pincher Creek	170	Sept. 24, 1909
Bailey, Douglas A.	Calgary	173	Oct. 22, 1909
Brenton, Charles J.	Edmonton	234	Apr. 1, 1911
Bratz, Emil	Pincher Creek	272	Dec. 19, 1911
Brooks, Fred	Edmonton	259	Nov. 10, 1911
Bailey, W. Edgar	Lethbridge	273	Dec. 19, 1911
Baron, Harry	Diamond City	283	Feb. 26, 1912
Bodard, Alcide	Edmonton	312	Aug. 12, 1912
Beyer, Otto R.	Diamond City	296	May 18, 1912
Beadle, Elkanah Wm.	Edmonton	320	Sept. 25, 1912
Buchanan, Wm. E.	Nanton	353	May 15, 1913
Brennan, Fred	Edson	346	Apr. 7, 1913
Bliz, John A.	Calgary	349	Apr. 21, 1913

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Second Class—Continued			
Burchell, James	Edmonton	340	May 7, 1913
Barker, John H.	Edmonton	355	June 21, 1913
Bronsema, Emanuel	Edmonton	385	Mar. 7, 1914
Barnott, Edward	Edmonton	402	Sept. 30, 1914
Butchart, Wm. Robt.	Hayter	371	Mar. 18, 1914
Cope, Edmund G. M.	Lethbridge	*1	June 30, 1899
Conn, David	Lethbridge (dup.) ..	181	Jan. 19, 1910
Chalmers, Walter N.	Edmonton	*51	May 28, 1900
Cullen, James E.	Calgary	*115	Feb. 20, 1901
Converse, Stephen J.	Ponoka	*192	Mar. 6, 1903
Clifford, Robert A.	Strathcona	*197	May 13, 1903
Chapman, A. B.	Red Deer	*239	Apr. 18, 1904
Callery, Frederick	Calgary (dup.)	150	Nov. 10, 1908
Coggan, Frank D.	Calgary	72	June 3, 1907
Cousins, Arthur	Calgary	24	Apr. 30, 1906
Crawford, Samuel L.	Strathcona	52	Oct. 25, 1906
Card, Caleb A.	Red Deer	53	Nov. 2, 1906
Currie, James J.	Calgary	110	Mar. 23, 1908
Caldwell, Theophilus	Calgary	105	Jan. 20, 1908
Cranston, Adam	Calgary	55	Jan. 22, 1907
Clinton, Otto M.	Edmonton	79	June 14, 1907
Collins, Fred M.	Frank	88	July 16, 1907
Campbell, Mal. L.	Earlsville	96	Oct. 28, 1907
Cowall, Cederic A.	Red Deer	100	Dec. 5, 1907
Calder, Hector J.	Calgary	112	Mar. 23, 1908
Carr, Alve B.	Edmonton (dup.) ..	203	June 2, 1910
Cutting, Charles	Vermilion	130	May 7, 1908
Collard, George Lewis	Medicine Hat	152	Jan. 18, 1909
Croft, William	Strathcona	174	Oct. 27, 1909
Carpenter, Wilfred	Frank,	188	Mar. 25, 1910
Cruickshanks, George	Lethbridge	185	Mar. 15, 1910
Commeayne, Florent	Edmonton	300	May 29, 1912
Candlish, William	N. Edmonton	281	Feb. 23, 1912
Craig, Hugh S.	Calgary	321	Sept. 28, 1912
Clark, Gordon	Edmonton S.	352	May 3, 1912
Costain, John H.	Edmonton	335	Feb. 12, 1913
Chapman, Harold	Carmangay	337	Feb. 19, 1913
Cameron, Walter R.	Grande Prairie	344	May 15, 1913
Cormier, Henry O.	Wetaskiwin	386	May 7, 1914
Claringbauld, Chas. A. G. ...	Millet	404	Oct. 19, 1914
Dozey, Charles	Frank	218	Sept. 16, 1910
Duncombe, Walter	Taber	217	Sept. 16, 1910
Donaldson, Maxwell	Lethbridge (dup.) ..	182	Jan. 19, 1910
Doughty, James	Calgary	*143	July 25, 1901
Dresser, Bertram W.	Wetaskiwin	*261	Oct. 15, 1904
Drader, John A.	Pincher Creek	*290	Dec. 30, 1904
Dean, David	Calgary	*298	Mar. 16, 1905
Drees, Max L.	Edmonton (dup.)	*269	Nov. 30, 1905
Danner, Clifford	Lacombe	22	Apr. 25, 1906
Duncan, Andrew, Sr.	Edmonton	129	May 7, 1908
Dick, Wm.	High River	57	Jan. 14, 1907
Duncan, Andrew, Jr.	Edmonton	139	Sept. 18, 1908
Dunbar, Hy. C.	Edmonton	123	Apr. 22, 1908
Donaldson, Samuel	Lethbridge	164	Sept. 15, 1909
Daley, Wm.	Strathcona	163	Aug. 27, 1909
Dowsett, Nathaniel	Frank	228	Mar. 7, 1911
Davies, Samuel	Elcan	274	Dec. 19, 1911
Davidson, Eric	Calgary	298	May 22, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Second Class—Continued.			
Downing, Augustus	Calgary	292	Apr. 26, 1912
Davis, John B.	Edmonton	362	Nov. 11, 1913
Dodd, James	Edmonton	356	Aug. 2, 1913
Drummond, John W.	Calgary	354	May 19, 1913
Duffy, Jas. T.	Strathmore	380	Apr. 21, 1914
Emery, Ray C.	Strathcona	*264	Oct. 15, 1904
Evans, Wm.	Frank	7	Sept. 18, 1905
Eby, Josiah S.	Didsbury	95	Oct. 24, 1907
Evans, George A.	Raymond	209	Aug. 30, 1910
Edmonds, Thos. J.	Edmonton	231	Mar. 20, 1911
Elderkin, Wm. J.	Calgary	248	Aug. 22, 1911
Eldridge, James Thomas ...	Passburg	285	Mar. 19, 1912
Ellis, John W.	Edmonton	406	May 19, 1914
Emmericks, John J.	Gleichen	374	Apr. 6, 1914
Emberston, Julius A.	Edmonton	369	Feb. 16, 1914
Frieman, Manfred	Lethbridge	234	Nov. 4, 1912
Finch, Robert H.	Calgary	*184	Oct. 10, 1902
Fraser, William	Strathcona	*265	Oct. 18, 1904
Frame, Charles F.	Lethbridge	*219	Oct. 6, 1903
Fraser, Charles	Okotoks	397	July 31, 1914
Fidler, J. J.	Calgary (dup.)	294	May 7, 1912
Fleetwood, Howard A.	Edmonton	*262	Oct. 15, 1904
Fisk, James George	Fort Saskatchewan ..	*307	Apr. 14, 1905
Faulkner, Jos. W.	Lundbreck	42	Aug. 11, 1906
Flan, James Robert	Calgary	85	July 16, 1907
Foote, William	Pincher Creek	87	July 16, 1907
Foster, John Thomas	Calgary	97	Nov. 14, 1907
Foster, Riley	Magrath	297	May 18, 1912
Ferguson, Llewellyn W.	Strathcona	301	June 28, 1912
Fabian, Henry B.	Tofield	311	July 23, 1912
Ferguson, Ernest G.	Fort Saskatchewan ..	383	Apr. 27, 1914
Findlay, Alex	Edmonton N.	387	May 7, 1914
Fennell, Wm. H.	Calgary	396	July 18, 1914
Grieve, David	Calgary	*111	Feb. 7, 1901
Griffiths, W. H.	Anthracite	31	May 14, 1906
Garneau, Alexander	Strathcona	*266	Oct. 15, 1904
Grieve, William	Calgary	*276	Oct. 28, 1904
Gibbs, Morley C.	Calgary	297	Mar. 16, 1905
Ginter, Wm. C.	Edmonton	18	April 11, 1906
Garner, Anthony	Bankhead	33	May 14, 1906
Godson, Wm.	Bankhead	83	June 26, 1907
Good, William	Calgary	134	Aug. 6, 1908
Going, Philip S.	Mountain View	238	Apr. 24, 1911
Graves, James H.	Calgary	229	Mar. 7, 1911
Grant, Alex	Calgary	250	Sept. 8, 1911
Galloway, Alex	Medicine Hat	361	Oct. 10, 1913
Going, Ernest M.	Mountain View	290	Apr. 16, 1912
Gleaves, George N.	Medicine Hat	314	Aug. 14, 1912
Gourley, Fred R.	Strathcona	316	Aug. 26, 1912
Gretttum, Clarence	Bawlf	376	Apr. 16, 1914
Gleeson, Nathan. C.	Red Deer	368	July 13, 1914
Hennegar, Ed. J.	Edmonton	*19	Oct. 2, 1899
Haines, Alfred H.	Edmonton	*33	Mar. 7, 1900
Hillis, Hy.	Medicine Hat	*42	Mar. 23, 1900
Hicklik, John W.	Calgary	*79	Sept. 29, 1900
Hiscon, Thos. S.	Lethbridge	*85	Sept. 29, 1900

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**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—Continued.**

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Second Class—Continued			
Howell, Edward	Battleford	*137	May 30, 1901
Hillis, Thomas	Lethbridge	*172	Aug. 18, 1902
Henneg, Michael	Calgary	*183	Oct. 10, 1902
Heatley, William	Beaumont	*274	Oct. 4, 1904
Henry, Charles	Strathcona	*234	Apr. 18, 1904
Hutchings, H. E.	Edmonton	*306	Mar. 31, 1905
Hackey, Thos. H.	Evarts	117	Apr. 14, 1908
Harper, Wm. H.	Lloydminster	10	Nov. 16, 1905
Heacock, Jas. H.	Calgary	71	June 3, 1907
Hay, George Porter	Pincher Creek	44	Aug. 11, 1906
Howe, Wm. Ed.	Sunny Slope	49	Sept. 8, 1906
Hendry, Wm. A.	Edmonton	64	May 15, 1906
Harris, Samuel D.	Red Deer	62	May 7, 1907
Harris, V. H.	Red Deer	63	May 7, 1907
Hockin, John	Edmonton	91	Oct. 15, 1907
Hill, John	Strathcona	131	May 18, 1908
Hill, Marshall	Macleod	189	Mar. 21, 1910
Henry, Walter F.	Ponoka	224	Nov. 15, 1910
Hilton, Wm. H.	Taber	213	Sept. 12, 1910
Howard, Ernest E.	Conjuring Creek	201	June 1, 1910
Horn, James	Lethbridge	187	Mar. 15, 1910
Holford, Jos. C.	Lac Ste. Anne	206	July 29, 1910
Henderson, Norman	Bellevue	230	Mar. 11, 1911
Hope, George	Royal View	286	Mar. 18, 1912
Holmes, George E.	Gleichen	351	Apr. 21, 1913
Hodginsons, Ernest G.	Calgary	350	Apr. 21, 1913
Hardy, David T.	Lethbridge	365	Jan. 12, 1914
Irwin, Lester J.	Strathcona	*270	Oct. 15, 1904
Irving, Albert E.	Calgary	56	Jan. 22, 1907
Irvine, Alexander	Calgary	165	Sept. 15, 1909
Inglis, George	Edmonton	266	Dec. 12, 1911
Innes, James L.	Edmonton	309	Dec. 17, 1914
Judd, David H.	Calgary	*161	Oct. 5, 1901
Jarratt, Edward	Strathcona	*263	Oct. 15, 1903
Jackson, James O.	Inga	60	Apr. 8, 1907
Johnson, Pontus	Lewisville	235	Apr. 5, 1911
Jack, William	Bassano	246	June 30, 1911
Jones, Joseph S.	Ponoka	347	June 17, 1913
Johnston, Albert J.	Calgary	381	Apr. 21, 1914
James, John	Elcan	372	Mar. 24, 1914
Johnston, Harry R.	Edmonton	384	Apr. 28, 1914
Kerr, William	Lethbridge (dup.) ...	183	Jan. 19, 1910
Kidd, Frederick	Calgary	62	June 14, 1900
Kowalczyck, Antoine	St. Paul de Metis ...	*114	Feb. 16, 1900
Kadlec, J. J.	Wetaskiwin	*236	Apr. 18, 1904
Killam, Robert C.	Red Deer	65	May 20, 1907
Keith, Edward C.	Lille	226	Dec. 8, 1910
Krammer, Frank	Calgary	293	May 1, 1912
Livingstone, James C.	Lethbridge	214	Sept. 12, 1910
Lang, James	Okotoks	*301	Mar. 17, 1905
Lacey, William R.	Calgary	*182	Oct. 10, 1902
Lamb, Herb David	Frank	41	Aug. 11, 1906
LeBreton, Gustav A.	Edmonton	*308	Apr. 14, 1905
Long, John	Okotoks	45	Oct. 11, 1906
Laut, John R.	Crossfield	153	Apr. 6, 1909
LaVoi, Frank P.	Calgary	111	Mar. 23, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—Continued.

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Second Class—Continued			
Lavelle, Patrick	Exshaw	149	Oct. 30, 1908
Lewis, John H.	Lethbridge	166	Sept. 15, 1909
Langstroth, Alf.	Calgary	240	May 5, 1911
Lord, Victor H.	Diamond City	244	May 26, 1911
Letcher, Richard	Hillcrest	255	Oct. 24, 1911
Libby, Malcolm M.	Edmonton	271	Dec. 15, 1911
Laundy, Harry	Edmonton	325	Nov. 6, 1912
Large, Eugene	Frank	343	Mar. 14, 1913
Lane, Conrad M.	Edmonton	392	June 22, 1914
Moran, Austin	Lethbridge	36	Mar. 23, 1900
Marshall, Fred Jos.	Kamloops, B. C.	*203	Aug. 14, 1902
Morrison, John C.	Gleichen	*214	Sept. 24, 1903
Mortimer, Samuel M.	Strathcona	*214	May 26, 1904
Murray, Robinson	Calgary	104	Jan. 20, 1908
Merres, Horace	Red Deer	93	Oct. 22, 1907
Mjølness, John A.	Medicine Hat	16	Apr. 11, 1906
Mauland, Jack	Bankhead	99	Dec. 5, 1907
Morrison, Kenneth	Coleman	20	Apr. 19, 1906
Mair, Robert B.	Strathcona	37	Aug. 8, 1906
Morgan, Thos. M.	High River	38	Aug. 7, 1906
Moore, Wm. A.	Red Deer	137	Aug. 13, 1908
Mueller, Karl F.	Lethbridge	333	Feb. 11, 1913
Munro, Claud	Lethbridge	317	Sept. 17, 1912
Morton, Wm. Johnston	Edmonton	308	June 28, 1912
Murray, James H.	Bankhead	360	Nov. 8, 1913
Markle, Wilbert H.	Calgary	332	Jan. 15, 1913
Mackin, John	Lethbridge	394	July 10, 1914
Maxwell, James	Edson	379	Apr. 17, 1914
Marshall, John H.	Calgary	401	Sept. 21, 1914
McKay, Daniel	Lethbridge	*4	June 30, 1899
McGee, Thomas	White Fish L. (dup.) ..	113	Mar. 28, 1908
McConnell, Wm. J.	Lethbridge	*	Oct. 8, 1903
McIntyre, John	Calgary (dup.)	48	Aug. 16, 1906
McKim, Nelson	Edmonton	14	Mar. 26, 1906
McClafin, W. G.	Ponoka	*237	Apr. 18, 1904
McCardia, Samuel	Edmonton	78	June 14, 1907
McLean, Frederick A.	Edmonton	*305	Mar. 31, 1905
McNeilly, S.	Okotoks	107	Mar. 23, 1908
McDonald, Simon	Frank	15	Mar. 28, 1906
McDonald, E. R.	Edmonton	120	Apr. 22, 1908
MacDonald, Alex	Edmonton	119	Apr. 22, 1908
McDonald, John D.	Hillcrest	61	Apr. 18, 1907
McNeil, Neil S.	Calgary	68	May 23, 1907
McKinon, Alex J.	Lille	82	June 20, 1907
McIntyre, Joseph	Taber	84	July 8, 1907
McGregor, John	Hillcrest	90	Sept. 26, 1907
McNichol, John	Exshaw	103	Jan. 3, 1908
McFayden, John C.	Edmonton	124	Apr. 22, 1908
McIndoe, Wm.	Calgary	136	Aug. 6, 1908
McDonald, John	Lille	172	Oct. 5, 1909
McNair, Arod N.	Lethbridge	175	Nov. 13, 1909
McIvor, Wm. K.	Edmonton	196	Apr. 13, 1910
McAffer, Ronald	Medicine Hat	221	Sept. 24, 1910
McKenzie, Norman	Calgary	242	May 20, 1911
McKenzie, Harvey K.	Lethbridge	275	Dec. 19, 1911
McLeod, Herdman	Coleman	302	June 28, 1912
McDonald, John A.	Calgary	327	Nov. 13, 1912
McAuley, Gus Wallace	Coleman	326	Nov. 13, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Second Class—Continued.			
McPhail, John	Bellevue	390	May 13, 1914
McLeod, Fraser	Diamond City	395	July 10, 1914
McPhee, Murdoch	Edmonton	366	Jan. 12, 1914
McLean, Myron C.	Ponoka	405	Oct. 19, 1914
McConnell, James	Drumheller	375	Apr. 6, 1914
McLean, Keith	Edmonton	403	Oct. 15, 1914
McGillivray, Colin	Lille	176	Nov. 13, 1909
Nimmons, Robert	Lethbridge	*38	Mar. 23, 1900
Nicholson, Robert John	Edmonton	67	May 20, 1907
Nuttall, Reginald	Edmonton	291	Apr. 25, 1912
Noble, Alex John	Edmonton	348	Apr. 17, 1913
Nothwang, Geo. K.	Edmonton	377	Apr. 16, 1914
Neill, Ernest R.	Edmonton	398	Aug. 10, 1914
Oxley, John	Taber	6	Sept. 18, 1905
Olson, Harold P. T.	Calgary	276	Dec. 28, 1911
O'Neill, Edward T.	Edmonton	319	Sept. 20, 1912
Oliver, Alonzo	Edmonton	336	Feb. 12, 1913
Parcels, Timothy E.	Red Deer	*6	Sept. 4, 1899
Payzant, Ernest M.	Edmonton	*12	Oct. 9, 1899
Pratt, George	Edmonton	*16	Oct. 9, 1899
Pearce, Abraham	Edmonton	*52	May 28, 1900
Pugh, John	Calgary	28	Apr. 30, 1906
Powers, Thomas E.	Strathcona	*246	May 26, 1904
Potter, Martin	Evarts	51	Oct. 5, 1906
Punnett, Lewis L.	Chesterwold	50	Oct. 4, 1906
Pallot, Herbert J.	Edmonton	144	Sept. 28, 1908
Payzont, H. C.	Edmonton	121	Apr. 22, 1908
Price, John	Edmonton	54	Dec. 19, 1906
Patterson, John M.	Okotoks	108	Mar. 23, 1908
Prince, John E.	Calgary	76	June 4, 1907
Purvis, John	Calgary	106	Feb. 15, 1908
Poole, Fred P.	Strathcona	132	July 9, 1908
Pollock, Daniel R.	Calgary	151	Dec. 2, 1908
Pearson, Augustus	Bellevue	210	Sept. 7, 1910
Potter, John	Calgary	184	Mar. 7, 1910
Pitts, Wm. S.	Edmonton	180	Jan. 10, 1910
Pallot, Harold E.	Edmonton	191	Apr. 6, 1910
Payne, George	Lethbridge	223	Oct. 20, 1910
Petrie, Robert F.	Elcan	219	Sept. 16, 1910
Patterson, Samuel F.	Granum	254	Oct. 18, 1911
Pollitt, Nicholas T.	Taber	247	July 13, 1911
Pearce, William C.	Edmonton	249	Aug. 24, 1911
Pollock, Frederick	Edmonton	253	Sept. 9, 1911
Palmer, John C.	Edmonton	262	Nov. 28, 1911
Peterson, J. Anderson	Edmonton	263	Nov. 29, 1911
Parken, Joseph	Carmen	288	Apr. 4, 1912
Parsons, Alfred J.	Royal City	318	Sept. 17, 1912
Pfitzeumier, Herman	Stettler	407	Nov. 19, 1914
Reed, R. W.	Lethbridge	*5	June 30, 1899
Richards, Hy. John	Canmore	*30	Feb. 13, 1900
Rankin, Thomas Hy.	Banff	*77	Sept. 29, 1900
Roberts, Wm. B.	Fort Saskatchewan ..	*235	May 18, 1904
Ritchie, Wm. A.	Calgary	141	Sept. 22, 1908
Ritch, John H.	Calgary	69	June 3, 1907
Reiton, Ole	Lethbridge	115	Apr. 8, 1908
Riddell, Arthur	Calgary	140	Sept. 22, 1908

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**SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—Continued.**

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Second Class—Continued.			
Rice, Robert	Calgary	222	Oct. 11, 1910
Richardson, Thos.	Calgary	220	Sept. 23, 1910
Rennie, Thomas	Millet	265	Dec. 8, 1911
Ross, Dexter A.	Strathcona	306	June 28, 1912
Ryan, Harry	Frank	313	Aug. 12, 1912
Richardson, Ernest	Calgary	299	May 22, 1912
Rush, Clyde E.	Burmis	338	Feb. 19, 1913
Ronaghan, Albert H.	Vermilion	378	Apr. 16, 1914
Robin, Victor E.	Edson	367	Jan. 12, 1914
Ray, Thos. J. S.	Calgary	399	Aug. 22, 1914
Schatz, Wm. H.	Strathcona	*17	Oct. 19, 1899
Shaw, M. W. S.	Midnapore	*27	Dec. 1, 1899
Stafford, George	Lethbridge	160	Aug. 20, 1909
Steven, Hutton	Calgary	*43	Apr. 17, 1900
Stagg, George	Calgary	*112	Feb. 7, 1901
Steven, Alfred E.	Calgary	*113	Feb. 7, 1901
Shelley, Henry James	Calgary	*116	Mar. 12, 1901
Sloan, William	Lethbridge	*169	July 30, 1902
Siemens, Peter	Anthracite	34	May 14, 1906
Stewart, John A.	Red Deer	12	Jan. 2, 1906
Shannon, Jas.	Calgary	*223	Nov. 6, 1903
Shackleton, Thos. A.	Kamloops	*224	Nov. 14, 1903
Starkey, George J.	Ponoka	9	Nov. 2, 1905
Stokes, Robert D.	Strathcona	19	Apr. 11, 1906
Stacey, Frederick H.	Edmonton	1	Sept. 18, 1905
Shore, John P.	Edmonton	3	Sept. 18, 1905
Slingsby, Sidney	Calgary	74	June 3, 1907
Stanley, Charles H.	Bankhead	32	May 14, 1906
Sefton, Frederick	Lethbridge	39	Aug. 10, 1906
Stanley, Benj. F.	Calgary	47	Aug. 14, 1906
Syer, Thos. M.	Red Deer	94	Oct. 22, 1907
Stockdale, Thos. D.	Lethbridge	133	July 31, 1908
Sparber, Charles H.	Lethbridge	177	Nov. 24, 1909
Simondson, Hy.	Northern	197	Apr. 13, 1910
Smith, Frederick	Coleman	215	Sept. 12, 1910
Schaumleffel, Clifford C.	Lloydminster	192	Apr. 6, 1910
Steven, John C. S.	Edmonton	204	June 22, 1910
Smith, Wm. J.	Milk River	370	Mar. 17, 1914
Scott, David S.	Coleman	256	Oct. 24, 1911
Simpson, John T.	Coleman	252	Sept. 8, 1911
Sinclair, Walter W. P.	Medicine Hat	236	Apr. 12, 1911
Saunders, Michael J.	Cardiff	267	Dec. 12, 1911
Seymour, Francis E.	Macleod	257	Oct. 24, 1911
Stobbs, John	Lethbridge	251	Sept. 9, 1911
Sowerby, William N.	Taber	258	Oct. 24, 1911
Stephenson, John Leach	Lethbridge	239	Apr. 24, 1911
Stephenson, Harry	Medicine Hat	245	June 20, 1911
Singer, William George	Edmonton	270	Dec. 12, 1911
Stirling, James	Michel	287	Mar. 18, 1912
Spargo, John	Edmonton	277	Jan. 12, 1912
Stratton, Claude	Edmonton	310	July 22, 1912
Shaw, Thomas	Edmonton	295	May 14, 1912
Shaw, Oliver E.	Lethbridge	339	Feb. 19, 1913
Smith, Ekin H.	Edmonton	358	Sept. 25, 1913
Shearer, Arthur	Hillcrest	408	Mar. 20, 1914
Sherret, Charles	Lethbridge	391	June 17, 1914
Scarr, Claude J.	Bankhead	400	Aug. 22, 1914
Smith, Clarence	Edmonton	388	May 7, 1914

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Second Class—Continued			
Tabacchi, Stephen	Lethbridge	186	Mar. 15, 1910
Toreson, Thomas	Wetaskiwin	*31	Mar. 7, 1900
Thompkins, Peter	White Fish Lake	*98	Nov. 27, 1900
Tasker, Henry A.	Nanton	148	Oct. 15, 1908
Taddrew, Henry P.	Edmonton	29	May 10, 1906
Turner, Duncan	Edmonton	98	Nov. 26, 1907
Thorley, James	Taber	101	Dec. 26, 1907
Turner, Stephen F.	Taber	102	Dec. 26, 1907
Terry, Frank A.	Strathcona	171	Dec. 29, 1909
Taylor, Percy E.	Taber	145	Oct. 6, 1908
Thompson, James	Innisfail	162	Aug. 24, 1909
Turner, James Abbot	Taber	304	June 28, 1912
Thomas, David Rees	Lethbridge	328	Nov. 13, 1912
Todd, William	Edmonton	357	Aug. 21, 1913
Thomson, John	Edmonton S.	393	June 22, 1914
Von Wendel, Carl	Calgary	*222	Nov. 6, 1903
Van Haast, Julius H.	Strathcona	*278	Nov. 5, 1904
Voss, Edwin E.	Fort Saskatchewan ..	128	May 7, 1908
Vincent, Robert G.	Blairmore	155	May 26, 1909
Varden, Anthony L.	Edmonton	158	July 5, 1909
Von Keekem, Barend J.	Medicine Hat	237	Apr. 12, 1911
Vaughan, Wm. Lyle	Calgary	243	May 20, 1911
Varlow, Hy. John	Edmonton	268	Dec. 12, 1911
Walker, J. B.	Lethbridge	*3	June 30, 1899
White, James	Canmore	*73	Sept. 5, 1900
Websdale, Francis	Edmonton	*139	June 21, 1901
Waldock, John G.	Medicine Hat	*170	Aug. 18, 1902
Waddell, O. S.	Edmonton	*245	May 26, 1904
Wright, George W.	Calgary	73	June 3, 1907
Wilcox, James E.	Coleman	125	Apr. 22, 1908
Williams, John	Edmonton	23	Apr. 30, 1906
Wilson, R. J.	High River	80	June 19, 1907
Webb, James F.	Exshaw	143	Sept. 22, 1908
Walker, Thomas	Coleman	46	Aug. 14, 1906
Wilkinson, Robert	Calgary	142	Sept. 22, 1908
Walker, Rolf A.	Edmonton	205	July 16, 1910
Warr, Percy J. H.	Lethbridge	227	Dec. 8, 1910
Winter, Archibald	Strathcona	202	June 1, 1910
Walton, John W.	Edmonton	233	Mar. 31, 1911
Willis, Robert I.	Edmonton	269	Dec. 12, 1911
Ward, John	Edmonton	330	Dec. 13, 1912
Wood, James	Bellevue	279	Jan. 16, 1912
Will, Frank Silver	Edmonton	284	Mar. 14, 1912
Williams, Richard	Medicine Hat	289	Apr. 6, 1912
White, William	Lethbridge	305	June 28, 1912
Weir, John	Edmonton	307	June 28, 1912
Warburton, John	Spring Point	359	Oct. 17, 1912
Watson, Frederick	Bankhead	364	Dec. 17, 1913
Wright, Thomas	Calgary	342	Mar. 14, 1913
Weston, Thomas W.	Hillcrest	389	May 7, 1914
Wentz, Earl R.	Medicine Hat	382	Apr. 29, 1914
Young, George	Lille	43	Aug. 11, 1906
Zurlinder, John	Calgary	138	Sept. 14, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
THIRD CLASS			
Albertson, Andrew O.	Strathcona	*135	June 25, 1901
Aikman, George	Calgary	*274	Sept. 11, 1902
Allan, Albert	Edmonton	*360	May 3, 1903
Allan, Arthur	Edmonton	*526	April 18, 1904
Ashcroft, Joseph	Lethbridge	*673	Nov. 24, 1904
Akey, Charles S.	Iowalta	*759	Mar. 24, 1905
Archbold, Chester H.	Wetaskiwin	2722	April 16, 1914
Ambler, David	Wetaskiwin	*790	Mar. 27, 1905
Anderson, Andrew Wm.	Wetaskiwin	*794	Mar. 27, 1905
Adair, James E.	Edmonton	2052	Feb. 29, 1912
Agar, Charles	Edmonton	143	May 29, 1906
Adshead, Herb B.	Olds	149	May 31, 1906
Anderson, John J.	Stavely	192	Aug. 13, 1906
Alexander, J. A.	Livingstone	203	Aug. 13, 1906
Abraham, W. R.	Lacombe	242	Sept. 28, 1906
Adams, David C.	Edmonton	207	Sept. 8, 1906
Auld, John	Edmonton	266	April 30, 1907
Anderson, G. A.	Bowden	318	May 29, 1907
Anderson, James J.	Crossfield	324	May 29, 1907
Anstett, Frank A.	Langdon	337	June 4, 1907
Andrews, W. H.	Stewartwyn	364	June 7, 1907
Adams, Charles W.	Lacombe	367	June 7, 1907
Anderson, Henry	Rosenroll	393	June 14, 1907
Anderson, William	Killam	399	June 14, 1907
Anderson, Ed. A.	Heatherbrae	402	June 14, 1907
Ambler, Geo. D.	Wetaskiwin	411	June 14, 1907
Allan, Harold	Calgary	563	Jan. 20, 1908
Amdahl, Theo. J.	Seven Persons	2516	April 15, 1915
Archibald, Syl C.	Ferry Bank	691	May 5, 1908
Alveberry, Fred S.	Wetaskiwin	699	May 7, 1908
Atterbury, Charles J.	Edmonton	733	Sept. 18, 1908
Asper, A.	Merna	782	Sept. 18, 1908
Ashcroft, John	Lethbridge	844	Oct. 6, 1908
Anderson, Aitken, McK.	Calgary	881	Mar. 19, 1909
Adring, Tom	Lethbridge	898	Mar. 24, 1909
Atkins, Ralph P.	New Dayton	899	Mar. 24, 1909
Aveldson, August	Sunny Slope	906	Mar. 26, 1909
Annabel, Bolton A.	Claresholm	965	April 16, 1909
Anderson, Edward	Sterling	988	April 20, 1909
Aldridge, Oliver	Cardston	2119	April 2, 1912
Arrison, Orrin S.	Gleichen	1017	April 28, 1909
Anderson, Orile H.	Sterling	1109	Sept. 15, 1909
Adams, Daniel P.	Lacombe	1173	Oct. 13, 1909
Ashburner, Edward	Lethbridge	1214	Mar. 15, 1910
Alspach, Wm. L.	Stavely	1273	Mar. 29, 1910
Anderson, Alex.	Granum	1280	Mar. 30, 1910
Anderson, John H.	Round Hill	1283	April 1, 1910
Atkins, C. C. L.	New Dayton	1356	April 14, 1910
Anderson, George H.	Barnwell	1367	April 15, 1910
Aaring, Ben	Burdett	1377	April 19, 1910
Allen, Ewart G.	Medicine Hat	2173	April 23, 1912
Allen, Ewart G.	Medicine Hat	1389	April 25, 1910
Ansley, Harvey R. B.	Medicine Hat	1390	April 25, 1910
Allen, Richard	Lethbridge	1421	June 11, 1910
Allan, Robert	Calgary	2527	April 21, 1913
Alger, George V.	Medicine Hat	2174	April 23, 1912
Ameson, Siguard A.	Eagle Hill	1550	Oct. 1, 1910
Atkinson, Wm. E.	Claresholm	1641	Mar. 16, 1911
Atkinson, Louis E.	Claresholm	1642	Mar. 16, 1911
Arbuster, John	Stony Plain	1694	Mar. 31, 1911

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Aitcheson, George	Green Lawn	1695	Mar. 30, 1911
Ainsley, Wm. G.	Bashaw	1712	April 5, 1911
Anderberg, Claus P.	Bassano	1849	June 13, 1911
Anderberg, Claus P.	Bassano	2735	April 23, 1914
Anderson, Victor	Granum	1874	July 13, 1911
Allen, Richard	New Dayton	1974	Oct. 24, 1911
Allen, Richard	New Dayton	2418	Nov. 13, 1912
Atkinson, Thomas	Little Volga	1987	Nov. 10, 1911
Arm, William F.	Lethbridge	2032	Feb. 14, 1912
Anderson, Carl	Taber	2056	Mar. 13, 1912
Albert, Max	Berseker	2123	April 4, 1912
Audland, Andrew	Carlstadt	2124	April 4, 1912
Allender, Loren L.	Lille	2242	May 2, 1912
Albertson, P. L.	Edmonton	2327	July 16, 1912
Armstrong, Alex.	Red Deer	2396	Oct. 16, 1912
Allen, James Hy.	Calgary	2450	Jan. 15, 1913
Antrobus, James	Coleman	2469	Feb. 19, 1913
Anderson, Frank	Calgary	2526	April 21, 1913
Adey, Frederick C.	Canmore	2679	Jan. 12, 1914
Appleby, Elmer L.	Calgary	2692	Feb. 19, 1914
Allen, Joseph	Bankhead	2716	April 6, 1914
Alward, Robert B.	Calgary	2757	May 18, 1914
Anderson, Crist	Calgary	2796	July 18, 1914
Anderson, William	Edmonton	2808	Aug. 17, 1914
Blatchford, Peter	Edmonton	*37	Nov. 28, 1899
Bawtinheimer, H. E.	Red Deer	*185	Dec. 18, 1901
Billo, Joseph	Edmonton	*193	Dec. 18, 1901
Bernier, Alexis	Lamoureux	*205	Dec. 18, 1901
Berlinguette, Alfred	Whitford	*255	Aug. 18, 1902
Burwell, Arthur P.	Edmonton	*354	April 24, 1903
Berg, John	Fort Saskatchewan ..	*356	May 13, 1903
Bolduc, Joseph	Beaumont	*362	May 13, 1903
Bowers, Richard J.	Strathcona	*364	May 13, 1903
Briggs, M. R.	Red Deer	*371	May 13, 1903
Bricker, Menno C.	Okotoks	*471	Nov. 6, 1903
Brown, Robert S.	Lamoureux	*480	Jan. 15, 1904
Burbank, Lyle A.	Calgary	*483	Feb. 10, 1904
Billow, Adolph	Canmore	*486	Mar. 14, 1904
Bailey, R. B.	Edmonton	*527	April 18, 1904
Brenton, J. R.	Edmonton	*544	April 18, 1904
Bolduc, Peter	Beaumont	*638	Oct. 15, 1904
Bevington, George E.	Strathcona	*642	Oct. 15, 1904
Browne, Thos. J.	Medicine Hat	*83	April 9, 1906
Brown, John Jr.	Innisfail	*757	Mar. 24, 1905
Bruce, Charles R.	Lacombe	*761	Mar. 24, 1905
Blewett, Wm. G.	Mewassin	*818	April 14, 1905
Bauclin, Theophile	Legal	*204	Aug. 14, 1906
Brunelle, John	Beaumont	*821	April 14, 1905
Brodie, Wm. A.	Ponoka	*848	May 30, 1905
Blanchette, Peter	Fort Saskatchewan ..	257	Dec. 28, 1906
Bradbeer, Edward	Lethbridge	14	Sept. 16, 1905
Bilson, Wm. Jas.	Lethbridge	2513	April 9, 1914
Baker, Charles L.	East Clover Bar	27	Sept. 16, 1905
Bittner, Anton	Ponoka	56	Nov. 11, 1905
Bell, Harry	Daugh	71	Mar. 16, 1906
Baker, Thomas	Calgary	72	Mar. 19, 1906
Boote, Edward	Pine Lake	107	April 24, 1906
Bodman, John A.	Calgary	885	Mar. 18, 1909
Bartlett, Percy R.	Edmonton	142	May 29, 1906

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Burns, David	Grassy Lake	170	Aug. 11, 1906
Baden, Wm. F.	High River	196	Aug. 13, 1906
Benz, August J.	Mundare	216	Sept. 13, 1906
Bates, Minor	Strathcona	2357	July 19, 1912
Brown, A. J.	Wavy Lake	232	Sept. 21, 1906
Bucher, L. W.	Wetaskiwin	273	May 15, 1907
Berg, John P.	Wetaskiwin	280	May 15, 1907
Barr, Ralph	Edmonton	286	May 15, 1907
Beggs, John	Innisfail	295	May 20, 1907
Buckton, Henry J.	Olds	302	May 23, 1907
Bugton, Ole G.	Harmattan	304	May 23, 1907
Bergen, Jacob	Didsbury	319	May 29, 1907
Bush, Frank C.	Didsbury	2804	Aug. 16, 1914
Barker, Wm. L.	Calgary	343	June 4, 1907
Brotherston, Robert A.	Calgary	345	June 4, 1907
Barnes, Wm. J.	Calgary	346	June 4, 1907
Brown, Wilfred B.	Calgary	359	June 4, 1907
Bush, Henry	Blackfalds	366	June 7, 1907
Brereton, Thos. A.	Valley City	376	June 7, 1907
Brown, Wm. H.	Edmonton	385	June 14, 1907
Berry, Robert G.	Fort Saskatchewan ..	392	June 14, 1907
Bradbury, Arthur T.	Edberg	398	June 14, 1907
Batke, Albert L.	Ferry Point	417	June 14, 1907
Bucker, Walter L.	Mossleigh	424	June 19, 1907
Brower, Archibald B.	Pincher Creek	928	April 1, 1909
Black, Robert	Strathcona	479	July 24, 1907
Boomer, Marshall	Blackfalds	481	July 27, 1907
Bowman, Albert	Strathcona	485	Aug. 28, 1907
Brickman, Joseph T.	Pembina	495	Oct. 15, 1907
Bell, Wm. G.	Red Deer	515	Oct. 22, 1907
Bergen, Henry	Didsbury	527	Oct. 24, 1907
Burchnall, Frank N.	Bluff Centre	543	Oct. 28, 1907
Bawslaugh, John J.	Calgary	559	Jan. 20, 1908
Burwell, Wm.	Gladys	569	Mar. 23, 1908
Blair, Geo. R.	Claresholm	570	Mar. 23, 1908
Base, John L.	Reid Hill	572	Mar. 23, 1908
Bell, Wm. F.	High River	573	Mar. 23, 1908
Blackorby, W. G.	Claresholm	575	Mar. 23, 1908
Bowerman, Cliff	Cowley	599	April 8, 1908
Bowerman, Cliff	Cowley	1635	Mar. 15, 1911
Banfield, J. Frank	Lethbridge	626	April 9, 1908
Bryant, Percy B.	Lethbridge	627	April 9, 1908
Brown, John	Evarts	635	April 14, 1908
Beckett, Waitland J.	Red Deer	636	April 14, 1908
Brubaker, Albert J.	Medicine Hat	1376	April 18, 1910
Burke, Benj. S.	Lacombe	693	May 6, 1908
Bader, Benj. H.	Lethbridge	704	May 14, 1908
Bateman, Ewart W.	Lethbridge	744	Aug. 6, 1908
Baxter, John	Red Deer	751	Sept. 3, 1908
Blacklock, Robert O.	Westward Ho	754	Sept. 8, 1908
Butts, John H.	Olds	755	Sept. 8, 1908
Brooke, Frederick C.	Olds	759	Sept. 11, 1908
Ball, Arthur	Mayville	767	Sept. 14, 1908
Burns, William	Higgins	768	Sept. 14, 1908
Bowick, Charles C.	Tofield	810	Sept. 23, 1908
Bowick, John D.	Tofield	811	Sept. 23, 1908
Brown, John	Kitscoty	812	Sept. 28, 1908
Brainard, Jerome W.	Nanton	824	Oct. 2, 1908
Bowler, Thomas H.	Macleod	845	Oct. 6, 1908
Benjamin, Albert	Morinville	862	Oct. 20, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Bucknam, Artliff V.	Bucknam	2637	Oct. 22, 1913
Bannerman, Wm.	Red Deer	*189	Dec. 18, 1901
Boomer, Alonzo	Lacombe	57	Nov. 22, 1905
Bartholomew, Claude D.	Morinville	886	Mar. 13, 1909
Barley, Charles	Mountain House	887	Mar. 20, 1909
Bratz, Emil	Pincher Creek	1626	Mar. 11, 1911
Bessey, Alfred	Stettler	961	April 13, 1909
Bell, David J.	High River	966	April 16, 1909
Bailey, George	Magrath	994	April 22, 1909
Bell, Andrew J.	Shepard	1018	April 28, 1909
Brantz, Albert A.	Mewassin	1036	April 28, 1909
Baumbach, John	Irvine	1046	May 1, 1909
Bishop, Frank E.	Medicine Hat	1047	May 1, 1909
Barnes, Edward	Edmonton	1061	May 21, 1909
Brown, George C.	Edmonton	1077	May 26, 1909
Bakken, Nels O.	Iron Springs	1078	May 28, 1909
Benson, Roy	Calgary	1080	June 8, 1909
Baker, Bernard S.	Nanton	1115	Sept. 21, 1909
Burr, John C.	Calgary	1116	Sept. 21, 1909
Betton, Thos. W.	High River	1140	Sept. 21, 1909
Boyle, James E.	Blairmore	1684	Mar. 29, 1911
Bercyz, Julius	Edmonton	1976	Oct. 24, 1911
Benson, George	Taber	1151	Sept. 28, 1909
Bjor, Frank	Calmar	1158	Sept. 29, 1909
Black, Andrew	Edmonton	1171	Oct. 9, 1909
Bradley, Harold R.	Wetaskiwin	1176	Nov. 5, 1909
Barley, Jack E.	Edmonton	1181	Nov. 16, 1909
Burness, Hy.	Edmonton	1191	Jan. 10, 1910
Bouyea, Arthur	Calgary	1193	Feb. 3, 1910
Berwick, Albert E.	Red Deer	1196	Mar. 4, 1910
Beamer, Frank A.	Calgary	1203	Mar. 7, 1910
Bishop, Harvey M.	Calgary	1204	Mar. 7, 1910
Blackstock, John	Calgary	1204	Mar. 7, 1910
Bonieman, William	Lethbridge	1215	Mar. 15, 1910
Buchring, William	Winnifred	1216	Mar. 15, 1910
Barbin, M. J.	Coaldale	1217	Mar. 15, 1910
Baker, Thomas R.	Magrath	1218	Mar. 15, 1910
Beatty, Ed. S.	Lethbridge	1219	Mar. 15, 1910
Bryant, Arthur	Lethbridge	1220	Mar. 15, 1910
Brown, Thomas	Frank	2069	Mar. 18, 1912
Baird, Sam	Blairmore	1625	Mar. 11, 1911
Bochnlein, Galuss J.	Macleod	1636	Mar. 15, 1911
Bochnlein, Galuss J.	Macleod	1266	Mar. 28, 1910
Buck, Herbert W.	Kitscoty	1302	April 6, 1910
Buckler, Eric W.	Black Diamond	1322	April 8, 1910
Buck, Alphas B.	Okotoks	1323	April 8, 1910
Brown, Archie B.	Acme	1334	April 11, 1910
Bowman, Elra	Halkirk	1284	April 1, 1910
Bonallo, Herbert D.	Calgary	1381	April 21, 1910
Bonallo, Keir	Calgary	1382	April 21, 1910
Babe, Richard	Whitla	1391	April 25, 1910
Byron, J. Hercule	Edmonton	1417	May 13, 1910
Barr, John	Calgary	1418	June 2, 1910
Bent, Wm. K.	Coleman	1441	July 14, 1910
Bryce, William	Davisburg	1485	Sept. 6, 1910
Bree, Ernest N.	Edmonton	1491	Sept. 13, 1910
Burton, Francois J.	Edgerton	1492	Sept. 16, 1910
Bratvold, Oscar	Dina	1493	Sept. 16, 1910
Barstad, Sanders E.	Lee Creek	1494	Sept. 16, 1910
Brattell, James E.	Calgary	1520	Sept. 23, 1910

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Brown, George J.	Granum	1539	Oct. 3, 1910
Brubaker, Jonas	Mayton	1551	Oct. 17, 1910
Barrett, Alfred	Ponoka	1556	Oct. 17, 1910
Burton, Frederick H.	Strathcona	1559	Oct. 19, 1910
Brown, Frederick H.	Medicine Hat	1563	Oct. 20, 1910
Bradley, Harold	Bassano	1579	Nov. 14, 1910
Byers, Elmer L.	New Dayton	1858	June 20, 1912
Byers, Elmer L.	New Dayton	1583	Nov. 17, 1910
Bailey, Evans	Coleman	1776	April 24, 1911
Bailey, Evans	Coleman	1584	Nov. 17, 1910
Bridge, Ray C.	Calgary	1590	Dec. 8, 1910
Borows, William	Lethbridge	2244	May 1, 1912
Bond, Newton	Mannville	1593	Dec. 10, 1910
Brouse, Jason W.	Calgary	1608	June 23, 1911
Bergman, Jos. A.	Lethbridge	2710	Mar. 24, 1914
Bennett, Fred C.	Hillcrest	2072	Mar. 18, 1912
Brubaker, Isaac	Airdrie	1646	Mar. 20, 1911
Brown, John E.	Calgary	1647	Mar. 20, 1911
Bye, Martin	Lillico	1670	Mar. 24, 1911
Bullman, John E.	Warner	1685	Mar. 29, 1911
Berrigan, Steve	Bassano	1671	April 19, 1911
Brougham, Wm. J.	Calgary	1762	April 19, 1911
Bennifield, John G.	Rosyth	1713	April 5, 1911
Broahen, Wm. H.	Medicine Hat	1731	April 7, 1911
Ballew, George L.	Medicine Hat	1750	April 15, 1911
Baumbach, Jacob I.	Irvine	1751	April 15, 1911
Burnett, Elmer	Taber	1777	April 24, 1911
Braumberger, Fred. C.	Berseker	1801	May 6, 1911
Barnes, Joseph	Bassano	1817	May 20, 1911
Bell, John F.	Lethbridge	1825	May 26, 1911
Berg, Carl M.	Calgary	1848	June 13, 1911
Bradshaw, R. Davis	Edmonton	1868	June 21, 1911
Bennett, Wm. D.	Strathmore	1879	July 15, 1911
Bowler, Herbert A.	Edmonton	1888	Aug. 16, 1911
Branning, L. E.	Bow Island	1906	Aug. 24, 1911
Burns, Robert W.	Holmglen	1926	Sept. 7, 1911
Bartman, Geo. V.	Castor	1927	Sept. 7, 1911
Butters, Hy. G.	Airdrie	1931	Sept. 7, 1911
Bowen, Robert	Strathcona	1953	Sept. 9, 1911
Baiers, Peter	Edmonton	2593	June 21, 1913
Boler, Thomas A.	Keoma	1967	Sept. 20, 1911
Blades, George	Stirlingville	1968	Oct. 20, 1911
Braithwaite, Harry	Lethbridge	1975	Oct. 24, 1911
Blake, James H.	Calgary	2005	Dec. 2, 1911
Brown, William	Coleman	2071	Mar. 18, 1912
Briggs, Myron W.	Barons	2090	Mar. 22, 1912
Boisvert, Antoine A.	Legal	2095	Mar. 25, 1912
Bruce, George B.	Cardiff	2096	Mar. 25, 1912
Barnum, Louis O.	Acme	2108	Mar. 28, 1912
Baker, Elmer	Champion	2148	April 16, 1912
Benson, Elmer A.	Brunetta	2149	April 16, 1912
Bland, Harry O.	Taber	2156	April 19, 1912
Brausen, John J.	Spring Lake	2163	April 20, 1912
Bonieman, John	Seven Persons	2175	April 23, 1912
Bissett, Robert B.	Gainsford	2192	April 24, 1912
Bissell, Charles M.	Gilpin	2193	April 24, 1912
Beers, John	Calgary	2202	April 26, 1912
Bibby, Reginald	Pine Creek	2235	April 29, 1912
Burgess, George G.	Lake View	2250	May 3, 1912
Birnel, Ernest E.	Sunny Slope	2251	May 3, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Burnette, Fred. N.	Calgary	2271	May 22, 1912
Boulet, John	Calgary	2272	May 22, 1912
Brennan, Cornelius	Bassano	2273	May 22, 1912
Bush, John Thomas	Edmonton	2308	June 17, 1912
Bird, Jos. Samuel	Edmonton	2326	July 12, 1912
Buttress, Clement	Noyes Crossing	2329	July 16, 1912
Bristo, Wm. George	Calgary	2338	July 18, 1912
Brown, James	Calgary	2404	Oct. 19, 1912
Bradshaw, Alfred	Calgary	2642	Nov. 8, 1913
Bailey, Peter	Edmonton	2422	Dec. 13, 1912
Baynton, Edward	Wainwright	2423	Dec. 13, 1912
Bevins, Harvey S.	Irvine	2473	Mar. 7, 1913
Baldwin, Harry	Diamond City	2474	Mar. 10, 1913
Butti, Petro	Frank	2483	Mar. 14, 1913
Bjornson, Esbjorn	Kananaskis	2510	April 7, 1913
Baer, E. F.	Redcliff	2517	April 15, 1913
Bennett, William A.	Calgary	2528	April 21, 1913
Bonkoski, Anthony J.	Marlboro	2506	April 26, 1913
Belisle, Fred. A.	Redcliff	2565	May 15, 1913
Bickerton, George H.	Gleichen	2571	May 19, 1913
Benton, Charles Ed.	Innisfail	2652	Dec. 13, 1913
Berlinguette, L. C.	St. Paul de Metis	2655	Dec. 16, 1913
Bainbridge, Wilfred	Beaver Mines	2706	Mar. 24, 1914
Bezley, Edwin C.	Calgary	2731	April 21, 1914
Baldwin, George I.	Mountain Park	2738	April 27, 1914
Beaumont, Carl D.	Champion	2806	Aug. 12, 1914
Barr, James	Calgary	2844	Nov. 23, 1914
Currie, L.	Strathcona	*23	Oct. 9, 1899
Cameron, John	Edmonton	*25	Oct. 9, 1899
Carscadden, F. W.	Strathcona	*45	Mar. 7, 1900
Clink, George J.	Lacombe	*115	Dec. 31, 1900
Campbell, Michel	Canmore	*141	May 1906
Cruikshank, Charles	Red Deer	*186	Dec. 18, 1901
Clauson, John	Red Deer	*231	April 23, 1902
Currie, William	Medicine Hat	*256	Aug. 18, 1902
Currie, Archibald	Medicine Hat	*406	Aug. 22, 1903
Calhoun, Culver	Calgary	*488	Mar. 14, 1904
Curtis, W. W.	Carstairs	*551	Dec. 20, 1904
Coulter, Frank	Edmonton	*528	April 18, 1904
Cunningham, J. E.	Ellerslie	*529	April 18, 1904
Clark, W. A.	Edmonton	*530	April 18, 1904
Charlette, Clifford	Beaumont	*634	Oct. 15, 1904
Cote, Joseph	Beaumont	*637	Oct. 15, 1904
Crichton, David O.	Lethbridge (dup.)	59	Dec. 2, 1905
Carpenter, David	Pincher Creek	*679	Dec. 9, 1904
Cummins, Walter J. C.	Calgary	*743	Mar. 16, 1905
Colter, Charles	Medicine Hat	*860	June 14, 1905
Converse, E.	Ponoka	55	Nov. 16, 1905
Campou, Denis	St. Albert	82	Mar. 26, 1906
Clausen, Daniel	Evarts	106	April 24, 1906
Cartwright, George	Calgary	116	April 30, 1906
Cooper, Wm. S.	Calgary	126	April 30, 1906
Craig, James T.	Edmonton	144	May 29, 1906
Colwell, Frank L.	Didsbury	152	May 31, 1906
Craig, Mert E.	Markerville	158	May 31, 1906
Clark, James Samuel C.	Taber	172	Aug. 11, 1906
Clark, O. S.	Meadow Creek	1087	Oct. 20, 1909
Casscadan, Arthur	Nanton	194	Aug. 13, 1906
Charboneau, Len	Fort Saskatchewan ..	213	Sept. 13, 1906

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Camfield, Ernest L.	Stettler	229	Sept. 20, 1906
Chabot, Joseph	Edmonton	235	Sept. 20, 1906
Coghill, Albert	Red Deer	239	Sept. 27, 1906
Cummings, Wm. J.	Bentley	244	Sept. 27, 1906
Curtis, Homer G.	Edmonton	265	April 29, 1907
Campbell, James H.	Edmonton	282	May 15, 1907
Code, James A.	Red Deer	296	May 20, 1907
Campbell, Johnson	Innisfail	317	May 29, 1907
Collard, Charles D.	Mundare	332	May 31, 1907
Cosgrove, James McA.	Calgary	341	June 4, 1907
Carter, John R.	Morningside	368	June 7, 1907
Cox, John	Stettler	369	June 7, 1907
Cunningham, Orvill D.	Vegreville	395	June 14, 1907
Cunningham, Wilber R.	Bawlf	403	June 14, 1907
Campbell, Benj. F.	Edmonton	2552	May 3, 1913
Clark, Herbert	Strathcona	418	June 14, 1907
Coates, Robert A.	Cochrane	2847	Nov. 25, 1914
Caplin, Fred C.	Huntsville	467	July 15, 1907
Charters, Ed. J.	Claresholm	469	July 15, 1907
Clemens, Pater F.	Stettler	531	Oct. 28, 1907
Crego, W. E.	Lacombe	537	Oct. 28, 1907
Cook, Wm. D.	Lamerton	565	Feb. 27, 1908
Culp, George W.	Spring Coulee	630	April 9, 1908
Cook, Francis R.	Medicine Hat	659	April 27, 1908
Cutting, Francis R.	Vermilion	676	April 27, 1908
Chambers, John	Lloydminster	710	May 18, 1908
Castian, Desire	Cardiff	774	Sept. 18, 1908
Collard, Richard R.	Edmonton	775	Sept. 18, 1908
Coburn, Alex. F.	Daugh	787	Sept. 21, 1908
Cotterall, John	Calgary	798	Sept. 22, 1908
Clark, Tom	Cochrane	799	Sept. 22, 1908
Carrow, Jos. B.	Calgary	800	Sept. 22, 1908
Cull, Cecil	Vegreville	813	Sept. 28, 1908
Challenger, Alf. E.	Edgerton	814	Sept. 28, 1908
Carriere, Arthur	High River	825	Oct. 2, 1908
Cody, William H.	High River	826	Oct. 2, 1908
Cousins, Bert	High River	827	Oct. 2, 1908
Cousins, Walter	High River	828	Oct. 2, 1908
Cameron, George M.	Calgary	861	Oct. 10, 1908
Cleave, George M.	Vegreville	865	Oct. 27, 1908
Coffman, Robert	Frank	868	Nov. 5, 1908
Curey, Wm.	Bowville	892	Mar. 24, 1909
Conibear, Wm. N.	Lethbridge	893	Mar. 24, 1909
Carlson, Carl G.	Didsbury	908	Mar. 26, 1909
Canton, Jules	Edmonton	939	April 3, 1909
Chester, Thomas W.	Macleod	952	April 7, 1909
Christian, Wm. M.	Vermilion	980	April 20, 1909
Cleven, Nels T.	Killam	995	April 23, 1909
Court, Wm. E.	The Gap	1019	April 28, 1909
Crews, Waldan	Medicine Hat	1048	May 1, 1909
Cathro, Aylmer G.	Lethbridge	1170	Oct. 9, 1909
Cowell, Robert J.	Edmonton	1062	Oct. 21, 1909
Chalmers, John	Coleman	1110	Sept. 18, 1909
Carfwright, Walter	Frank	1111	Sept. 18, 1909
Cotton, Samuel J.	Coleman	1112	Sept. 18, 1909
Creron, James	Edmonton	1179	Nov. 16, 1909
Cuddy, Andrew S.	Hillend	1197	Mar. 3, 1910
Czarkaski, Antonio	Edmonton	1202	Mar. 5, 1910
Campbell, John Chas.	Taber	1221	Mar. 15, 1910
Cimoline, Antonio	Lille	1248	Mar. 21, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Callahan, Joseph	Pincher Creek	1258	Mar. 22, 1910
Cridland, Walter	Summerview	1259	Mar. 22, 1910
Cook, Marshall S.	Pincher Creek	2014	Dec. 19, 1911
Cook, Marshall S.	Pincher Creek	1260	Mar. 22, 1912
Curtis, Claud C.	Macleod	1281	Mar. 30, 1910
Carroll, Thos. C. P.	Vermillion	1303	April 6, 1910
Clay, Elmer	Paradise Valley	1304	April 6, 1910
Cleophas, Leif M.	Coledale	1313	April 7, 1910
Cady, Lynn	Edmonton	1345	April 13, 1910
Cheyne, James	Edmonton	1405	May 17, 1910
Califas, Henry	Edmonton	1442	July 14, 1910
Cutlack, Percy	Cowley	1469	Aug. 31, 1910
Cook, Delmer E.	Innisfall	1513	Sept. 21, 1910
Cameron, James D.	Bassano	1521	Sept. 23, 1910
Cleminin, Samuel	Bawlf	1541	Oct. 7, 1910
Crawford, Robert	Barnhill	1564	Oct. 20, 1910
Campbell, Hugh J.	Calgary	1578	Oct. 21, 1910
Chapman, Thomas	Lethbridge	1612	Mar. 7, 1911
Chadwick, Emm.	Calgary	2476	Mar. 14, 1913
Czerniawski, Mike	Vegerville	1664	Mar. 22, 1911
Cary, Belbert	Stettler	1671	Mar. 24, 1911
Campbell, Lewis A.	Warner	1686	Mar. 29, 1911
Campbell, Benj.	Warner	1687	Mar. 29, 1911
Coffee, Clinton	Tide Lake	1732	April 10, 1911
Coyle, Ed. S.	Nanton	1763	April 19, 1911
Christian, Neal	Magrath	1778	April 24, 1911
Cox, Orville	Kesma	1802	May 6, 1911
Cleminson, Jer.	Calgary	1818	May 20, 1911
Cleminson, Wm.	Calgary	1819	May 20, 1911
Caveny, Howard	Stavely	1859	June 20, 1911
Clock, Alf. L.	River Bow	1860	June 20, 1911
Call, Hubert L.	Wetaskiwin	1870	July 6, 1911
Crinion, Bert	Sundial	1875	July 13, 1911
Cromer, Walter	Edmonton	1889	Aug. 16, 1911
Chatvaire, Jean	Edmonton	1890	Aug. 16, 1911
Chatvaire, Jean	Edmonton	2630	Sept. 20, 1914
Cameron, Frank A.	Calgary	1897	Aug. 22, 1911
Carney, Wm. C.	Nanton	1969	Oct. 20, 1911
Caron, Alphonse	River Qu Barre	1985	Oct. 25, 1911
Cowe, George	Edmonton	1988	Nov. 10, 1911
Cook, Wm. R.	Taber	1997	Nov. 17, 1911
Corlett, Wm. Ed.	Edmonton	1768	April 21, 1911
Corlett, Wm. Ed.	Edmonton	2225	April 29, 1912
Carlson, Gus. A.	Battle River	1964	Oct. 18, 1911
Carlson, Gus. A.	Battle River	2287	May 29, 1912
Christie, Wm. W.	Cayley	2025	Jan. 16, 1912
Clegg, Wm. A.	Coleman	2028	Jan. 16, 1912
Corbett, Richard A.	Strathcona	2046	Feb. 23, 1912
Coskey, Clarence J.	Passley	2057	Mar. 13, 1912
Cofell, Lemmy	Ardenville	2070	Mar. 18, 1912
Crapo, George	Bickerdike	2097	Mar. 25, 1912
Clem, John W.	Bragg Creek	2109	Mar. 28, 1912
Crawford, Dan. A.	Magrath	2120	April 2, 1912
Collins, George H.	Gleichen	2125	April 4, 1912
Carnahan, Reuben J.	Bassano	2126	April 4, 1912
Cameron, Wm. T.	Sedgewick	2136	April 10, 1912
Conover, George F.	Grassy Lake	2176	April 23, 1912
Collins, John	Calgary	2203	April 26, 1912
Court, Ed. Alfred	Exshaw	2204	April 25, 1912
Card, Herbert	Leslieville	2252	May 3, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Cowger, Daniel L.	Bassano	2299	June 11, 1912
Collyer, Percy E.	Edmonton	2309	June 17, 1912
Copson, Fred. W.	St. Albert	2310	June 17, 1912
Cameron, Wm. John	Calgary	2339	July 18, 1912
Craig, James A.	Tilley	2340	July 18, 1912
Chrisman, Frank	Vermilion	2382	Sept. 20, 1912
Curtis, Lee L.	Edmonton	2412	Nov. 8, 1912
Cox, Arthur	Calgary	2434	Dec. 18, 1912
Crosby, William	Exshaw	2435	Dec. 18, 1912
Cathcart, James	Edmonton	2491	Mar. 26, 1913
Christianson, Oliver	Edmonton South	2444	Jan. 13, 1913
Costa, Joseph	Bellevue	2484	Mar. 14, 1913
Collin, Louis C.	Carmangay	2505	April 3, 1913
Crouch, Leroy	Redcliff	2518	April 15, 1913
Clement, Arthur L. H.	Calgary	2529	April 21, 1913
Clare, Charles E.	Medicine Hat	2567	May 15, 1913
Cartwright, Vern	New Dayton	2570	May 15, 1913
Cownden, William R.	Edmonton N.	2783	June 22, 1914
Crow, James A.	Edmonton South	2605	July 17, 1913
Califas, Henry	Carbon	2618	Aug. 21, 1913
Clark, James A.	Grainford	2632	Sept. 25, 1913
Crawford, Thomas Hy.	Medicine Hat	2651	Dec. 13, 1913
Carson, William	Edmonton	2661	Dec. 17, 1913
Currie, George D.	Carbon	*296	Oct. 1, 1902
Curtis, Albert G.	Reist	2770	June 13, 1914
Carrier, Charles H.	Calgary	2845	Nov. 23, 1914
Chalupsky, Albert	Medicine Hat	2637	Feb. 13, 1914
Colaretti, Antonio	Passburg	2703	Mar. 24, 1914
Carle, William P.	Seba	2709	Mar. 25, 1914
Coffin, Donald	Edmonton	2711	April 2, 1914
Caslick, Thomas	Cardiff	2746	May 7, 1914
Carlson, Carl Oscar	Edmonton	2749	May 12, 1914
Caulfield, Owen	Gleichen	2758	May 18, 1914
Close, Wm. A.	Lethbridge	2774	June 17, 1914
Carlson, Alf. R.	Edmonton	2782	June 22, 1914
Cornwell, William	Kipp	2791	July 10, 1914
Caldwell, Ernest F.	Calgary	2797	July 18, 1914
Collier, James B.	Edmonton	2809	Aug. 17, 1914
Cochrane, Elijah H.	Sangudo	2828	Sept. 30, 1914
Clarke, Geo. White	Banff	2832	Oct. 20, 1914
Coburn, John	Edmonton	2840	Nov. 19, 1914
Currie, Lawrence M.	Vermilion	2841	Nov. 19, 1914
Delop, Thomas	Frank	*293	Sept. 30, 1902
Dobbs, F. M.	Iowalta	*515	April 18, 1904
Druar, S. P.	Riviere Qu Barre	*532	April 18, 1904
Dubuc, Emile	Morinville	*551	May 26, 1904
Davis, Henry E.	Didsbury	*752	Mar. 24, 1905
Davie, Alvin A.	Calgary	*846	Mar. 26, 1905
Dickson, James	Blairmore	6	Sept. 16, 1905
Dye, James E.	Ponoka	33	Sept. 16, 1905
Deisting, C. G.	Duhamel	54	Nov. 3, 1905
Dowling, Nelson	Edmonton	90	Mar. 11, 1906
Devillard, Louis	Edmonton	89	Mar. 11, 1906
Drader, Ernest	Lacombe	112	April 25, 1906
Dawes, Albert A.	High River	121	April 30, 1906
Dickson, Wm. A.	Medicine Hat	167	Aug. 11, 1906
Dickens, Charles	Lille	183	Aug. 13, 1906
Dance, Walter H.	Innisfail	293	May 20, 1907
Doolan, John T.	Fort Saskatchewan ..	335	May 31, 1907

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Doyle, John L.	Langdon	349	June 4, 1907
Davidson, Peter A.	Calgary	358	June 4, 1907
Drewes, H. F. W.	Mayville	373	June 7, 1907
Davidson, Andrew C.	Lacombe	377	June 7, 1907
Dersch, Anton L.	Leavings	451	July 15, 1907
Dobbie, Alex.	Pincher Creek	929	April 1, 1909
Drury, William	Taber	552	Dec. 26, 1907
Drinnon, Robert McC.	Calgary	586	Mar. 23, 1908
Deakin, Thos.	Hillcrest	606	April 8, 1908
Dickson, John	Red Deer	640	April 14, 1908
Dehning, Louis H.	Tapscott	649	April 15, 1908
Davis, George O.	Crossfield	680	May 1, 1908
Davis, George O.	Crossfield	2117	April 6, 1914
Dowsett, Alfred	North Bank	697	May 7, 1908
Davis, Chris A.	Lavoy	724	May 18, 1908
Dennis, Glen	Vegreville	726	May 18, 1908
Denner, Joseph	Lesser Slave Lake ..	737	Aug. 6, 1908
Dunbar, Frank G.	Three Hills	756	Sept. 8, 1908
Dickan, Chas. J. H.	Didsbury	760	Sept. 11, 1908
Davis, Clarence	Stavelly	829	Oct. 2, 1908
Davis, Christopher	Lethbridge	846	Oct. 6, 1908
Dingee, Harry	Lethbridge	867	Oct. 29, 1908
Dangerfield, James A.	Olds	1190	Dec. 30, 1909
Donnelly, Henry J.	Wetaskiwin	*784	Mar. 27, 1905
Dawson, John C.	Mountain View	455	July 15, 1907
Denson, Alex. R.	Bankhead	550	Dec. 5, 1907
Duffey, Alfred	Lethbridge	2656	Dec. 16, 1913
Diiski, John	Sundial	897	Mar. 24, 1909
Deugan, Hiram W.	Coleman	910	Mar. 30, 1909
Darimont, James	Edmonton	942	April 3, 1909
Dickan, Ferd. W.	Ponoka	947	April 17, 1909
Dupmeyer, Joseph	Edmonton	981	April 20, 1909
Davis, George W.	Falstaff	996	April 22, 1909
Duncan, Alex. D.	Edmonton	1063	May 21, 1909
Dixon, William	Calgary	1117	Sept. 21, 1909
Dickie, Samuel	Lethbridge	1157	Oct. 5, 1909
Davey, John B.	Calgary	1206	Mar. 7, 1910
Dawson, Wm.	Macleod	1267	Mar. 28, 1910
Denike, George H.	Lacombe	1285	April 1, 1910
Davy, Stewart C.	Calgary	1324	April 8, 1910
Davidson, James F.	Calgary	1325	April 8, 1910
David, J. R.	Vegreville	2525	April 17, 1913
Darrow, Mason	Taber	1368	April 15, 1910
Dainger, Orlando	Starling	1369	April 15, 1910
Dunn, Robert J.	Calgary	1383	April 21, 1910
Downing, Frank H.	Bassano	1385	April 19, 1910
Dixon, Wm.	Calgary	1415	May 23, 1910
Dow, Alexander	Lethbridge	1477	Sept. 1, 1910
Dredge, Wm. H.	Edmonton	1495	Sept. 16, 1910
Dow, James	Lethbridge	1613	Mar. 7, 1911
Dixon, George W.	Macleod	1638	Mar. 15, 1911
Davis, Wallace H.	Calgary	1649	Mar. 20, 1911
Dearden, Simon	Three Hills	1650	Mar. 20, 1911
De Wolfe, Wilburn	Sanderville	1672	Mar. 24, 1911
Dewar, Alex. K.	Fort Saskatchewan ..	1769	April 21, 1911
Dankwerth, Wm. L.	Gleichen	1733	April 10, 1911
Desler, Hy. C.	Stavelly	1779	April 24, 1911
Dunn, Chas. W.	Calgary	1803	May 6, 1911
Downham, Mark	Calgary	1804	May 6, 1911
Davison, H. Y.	Rexboro	1813	May 18, 1911

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Damman, Wm.	New Dayton	1826	May 26, 1911
Davis, Wm. A.	Edmonton	1895	Aug. 18, 1911
Doten, Earl B.	Calgary	1932	Sept. 8, 1911
DeVore, Harley G.	Edmonton	1960	Sept. 30, 1911
Dow, Gavin M.	Lethbridge	1998	Nov. 17, 1911
Davis, Alfred J.	Lethbridge	2015	Dec. 19, 1911
Desler, George C.	Nanton	1274	Mar. 29, 1910
Desler, George C.	Nanton	2747	May 7, 1914
Draper, Harry	Calgary	2035	Mar. 14, 1912
Diemert, Eugene	Stavely	2091	Mar. 22, 1912
Dubuc, Arthur	Morinville	2098	Mar. 25, 1912
Dunn, Gerald A.	Crowfoot	2127	April 4, 1912
Dyvig, Jacob	Carlstadt	2128	April 4, 1912
Davis, Newton	Bassano	2129	April 4, 1912
Dale, Lewis	Hayter	2137	April 10, 1912
Dobson, Fred. J.	Camrose	2723	April 16, 1914
Davidson, Wm. H.	Lloydminster	2195	April 24, 1912
Dowsett, Edward J.	Whastao	2229	April 29, 1912
Dawson, Frank B.	Bassano	2274	May 23, 1912
Dillabaugh, Jacob	Edmonton	2311	June 17, 1912
Day, Ira, J.	Edmonton	2381	Sept. 20, 1912
Davern, Joseph P.	Calgary	2391	Oct. 7, 1912
Dalglish, Thomas R.	Red Deer	2416	Nov. 12, 1912
Dowell, James H.	Edmonton	2424	Dec. 13, 1912
Davison, John W.	Calgary	2436	Dec. 18, 1912
Desjardines, J. Alex.	Mullhurst	2498	Mar. 28, 1913
Duffield, Charles E.	Redcliff	2519	April 15, 1913
Dunsmore, James	Big Valley	2561	May 12, 1913
Daniels, Maurice V.	Czar	2595	June 21, 1913
Davies, Griffiths	Edmonton S.	2606	July 17, 1913
Davey, Stuart C.	Bassano	2825	Sept. 21, 1914
Demoule, Joseph	Bassano	2674	Jan. 10, 1914
Dunaway, Leonard G.	Vermilion	2676	Jan. 12, 1914
Defieux, Omand T.	Edmonton S.	2688	Feb. 16, 1914
Dollars, John	High River	2693	Feb. 19, 1914
Dous, William	Wetaskiwin	2724	April 16, 1914
Duncan, William	Edmonton	2750	May 13, 1914
Dickinson, R. F.	Vermilion	2765	May 19, 1914
Davidson, Archie H.	Edmonton	2830	Oct. 15, 1914
Donnelly, Wm. Robt.	Edmonton	2842	Nov. 19, 1914
Edgerton, Guy	Red Deer	*184	Dec. 18, 1901
Evarts, Lucius P.	Calgary	*394	Aug. 14, 1903
Evarts, Philo	Banff	*490	Mar. 4, 1904
Edmonds, Thos. J.	Edmonton	*803	Mar. 31, 1905
Embody, Chas. S.	Calgary	125	April 30, 1906
Ennes, John Jas.	Innisfail	147	May 31, 1906
Ewart, David	Strathcona	219	Sept. 13, 1906
Endersby, Jos. P.	Medicine Hat	261	April 6, 1907
Engen, Anton A.	Sunny Slope	311	May 29, 1907
Eggenberger, John K.	Coalbanks	327	May 29, 1907
Elliott, John	Calgary	353	June 4, 1907
East, Alfred E.	Strathcona	1436	July 7, 1910
Ensminger, Louis C.	Lacombe	400	June 14, 1907
Erratt, Wm. H.	Nanton	419	June 19, 1907
Emmerson, Robert	Bellevue	911	Mar. 30, 1907
Elliott, Henry N.	Carstairs	536	Oct. 28, 1907
Euard, Arthur W.	Calgary	556	Jan. 20, 1908
Elmhirst, Jos. A.	High River	584	Mar. 23, 1908
Eiseman, Jos.	Peace River Crossing	738	Aug. 6, 1908

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Ellison, O. H.	Strome	783	Sept. 18, 1908
Endersby, John George	Lethbridge	10	Sept. 16, 1905
Elford, Albert	Grassy Lake	1009	April 25, 1909
Edwards, Orien	Cheadle	1020	April 28, 1909
Evans, John B.	Canmore	1022	April 28, 1909
East, Neal	Edmonton	1083	July 9, 1909
Elder, Chas. G.	Calgary	1118	Sept. 21, 1909
Entwhistle, Chas. H.	Edmonton	1145	Sept. 24, 1909
Elliott, Thos.	Cardiff	1182	Nov. 24, 1909
Emrich, Wm.	Innisfail	1198	Mar. 4, 1910
Enzenauer, Peter	Loma	1263	Mar. 24, 1910
Earl, Edgar G.	Norton	1392	April 25, 1910
Egger, Christian	Bowvil'e	1411	May 21, 1910
Ells, Frederick B.	Coleman	1422	June 11, 1910
Erickson, Eric A.	Milk River	1423	June 11, 1910
Enyeart, Chas. F.	New Dayton	1566	Oct. 20, 1910
Evans, Jos. W.	Magrath	1314	April 7, 1910
Emde, Wm. J.	Coaldale	1614	Mar. 7, 1911
Eld, Gust	Parkland	1651	Mar. 20, 1911
Eshpeter, Hy.	Spring Lake	1714	April 5, 1911
Ensign, Elmer G.	Barnwell	1780	April 24, 1911
Edwards, Jas. M.	Calgary	1820	May 20, 1911
Evanson, Ed. M.	Raymond	1876	July 13, 1911
Earl, Alex.	Strathcona	1891	Aug. 16, 1911
Evans, Earl L.	Leslieville	1928	Sept. 7, 1911
Evans, Thos. O.	Lille	1999	Nov. 17, 1911
Eiklor, James J.	Calgary	2036	Feb. 14, 1912
Edmonds, Charles	Strathcona	2099	Mar. 25, 1912
Elynik, Fred	Mundare	2194	April 24, 1912
Engen, Ole K.	Suffield	2301	June 11, 1912
Evans, Alfred	Edmonton	2312	June 17, 1912
Eades, John J.	Vermilion	2393	Oct. 10, 1912
Elliott, Walter E.	Calgary	2643	Nov. 8, 1913
Edwards, Frank T.	Pine Lake	2465	Feb. 12, 1913
Evans, William	Passburg	2616	Aug. 12, 1913
Ebbers, Bernard H.	Edmonton	2662	Dec. 17, 1913
Everts, Cedric F.	Wetaskiwin	2685	Feb. 12, 1914
Flack, Samuel	Red Deer	*194	Dec. 18, 1901
Findlay, James F.	Leduc	*211	Dec. 18, 1901
Fair, Francis Wm.	Medicine Hat	*257	Aug. 18, 1902
Foster, Wm. W.	Red Deer	*370	May 13, 1903
Fluker, W. R.	Fort Saskatchewan ..	*545	April 18, 1904
Flett, Andrew R.	Calgary	*744	Mar. 16, 1905
Farren, Edgar	Evarts	*777	Mar. 24, 1905
Fowler, Wm. H.	Edmonton	*800	Mar. 31, 1905
Flintoff, Walter	Partridge Hill	*816	April 14, 1905
Fairman, Charles	Medicine Hat	85	April 11, 1906
Frizzelle, James I.	Lacombe	104	April 24, 1906
Fullerton, Thomas W.	Calgary	122	April 30, 1906
Fordyce, J.	Bowden	156	May 31, 1906
Falt, Ainsley M.	Morinville	208	Sept. 13, 1906
Fitzsimmons, G. E.	Calgary	237	Sept. 24, 1906
Falkenberg, Fred D.	Saron	275	May 15, 1907
Forster, Michael	Leduc	278	May 15, 1907
Fortune, George C.	Trochu Valley	2683	Jan. 20, 1914
Fryett, Arthur J.	Neapolis	312	May 29, 1907
Frieson, J. F.	Sunny Slope	313	May 29, 1907
Fike, Daniel K.	Crossfield	320	May 29, 1907
Fuller, Albert	Calgary	357	June 4, 1907

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Fox, Henry	Olds	380	June 10, 1907
Findley, Thomas	High River	429	June 19, 1907
Fricke, Chas. L.	Erskine	541	Oct. 28, 1907
Fauver, A. E.	Lamerton	542	Oct. 28, 1907
Freeze, Benj. H.	Edmonton	590	April 2, 1908
Fried, Vincent J.	Granum	598	April 2, 1908
Fried, Vincent J.	Granum	1643	Mar. 15, 1911
Firth, Hedrick	Lethbridge	603	April 8, 1908
Fowler, Dan T.	Magrath	614	April 8, 1908
Frieson, Peter	Didsbury	652	April 15, 1908
Fenner, John S.	Camrose	718	May 18, 1908
Farquhar, Alex. W.	Calgary	2530	April 21, 1913
Fortin, Chas. C.	Morinville	876	Jan. 18, 1909
Forland, Ole	Lethbridge	900	Mar. 24, 1909
Feargue, Francis J.	Pincher Creek	930	April 1, 1909
Forest, James O.	Lacombe	951	April 6, 1909
Fowlie, Wm.	Blayney	967	April 16, 1909
Forslin, John	New Dayton	989	April 20, 1909
Falardean, Aaron J.	Taber	1010	April 25, 1909
Francis, Jos.	Taber	1011	April 25, 1909
Francis, Jos.	Taber	1717	April 5, 1911
Fullerton, Daniel W.	Taber	1012	April 25, 1909
Fullerton, Daniel W.	Taber	2686	Feb. 12, 1914
Fielding, James	Lethbridge	1434	June 25, 1910
Farend, Chas. H.	Barnwell	1152	Sept. 28, 1909
Finstad, Ole A.	Claresholm	1153	Sept. 28, 1909
Fansher, Fred	Lamont	1159	Sept. 29, 1909
Fedun, John	Mundare	1160	Sept. 29, 1909
Frey, Frank	Frank	2485	Mar. 14, 1913
Fairbairn, Robert	Vegreville	1174	Oct. 22, 1909
Fietz, Otto	Diamond City	1222	Mar. 15, 1910
Fisher, Bert	Coleman	1250	Mar. 21, 1910
Fowler, Willis L.	High River	1261	Mar. 22, 1910
Frank, Christopher E.	Frankburg	1264	Mar. 24, 1910
Fedoruk, Tyofi	Vegreville	1305	April 6, 1910
Fenton, S. A.	Taber	1370	April 15, 1910
Fletcher, John R.	Grassy Lake	1378	April 19, 1910
Francis, Wm.	Carlstadt	1393	April 25, 1910
Frigon, Fred	Calgary	1447	July 15, 1910
Fike, Jesse J.	Barnwell	1511	Sept. 21, 1910
Forster, James	Hillcrest	1627	Mar. 11, 1911
Firth, Wifred	Macleod	1637	Mar. 15, 1911
Farrell, Percy E.	Carstairs	1652	Mar. 20, 1911
Ferguson, Dugald	Nanton	1734	April 10, 1911
Frizzelle, Jinkle G.	Calgary	1735	April 10, 1911
Freisen, Ger. H.	Sunny Slope	1715	April 5, 1911
Ferschweiler, John	Trochu	1716	April 5, 1911
Flynn, Charles	Calgary	1736	April 11, 1911
Fleming, James	Medicine Hat	1781	April 24, 1911
Forsyth, James A.	Red Deer	1798	April 26, 1911
Fleming, Andrew B.	Irricana	1805	May 6, 1911
Frache, Richard	Lethbridge	1862	June 20, 1911
Foster, Arthur C.	Calgary	1898	Aug. 22, 1911
Foughty, Clifford R.	Carlstadt	1933	Sept. 8, 1911
Forbes, John	Edmonton	2008	Dec. 12, 1911
Freeman, Herbert B.	Edmonton	2641	Oct. 28, 1913
Flamme, August W.	Bow Island	2058	Mar. 13, 1912
Fitzpatrick, John	Bellevue	2073	Mar. 18, 1912
Farmer, Raymond W.	Morningside	2138	April 10, 1912
Fletcher, James	Metiskow	2165	April 20, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Freeland, Charles	Hindville	2231	April 29, 1912
Fenwick, Charles	Strome	2297	June 10, 1912
Fairhurst, George	Coleman	2305	June 14, 1912
Farnsworth, Joseph	Seven Persons	2351	July 19, 1912
Flett, Fred. W.	Edmonton	2445	Jan. 13, 1913
Farrell, George C.	Edmonton	2548	April 26, 1913
Forgie, Alex.	Clover Bar	2647	Nov. 11, 1913
Forsythe, Marshall A.	Bankhead ..	2718	April 6, 1914
French, Geo. B.	Cardiff	2742	April 27, 1914
Filion, Joseph	Edmonton	2761	May 19, 1914
Gagnon, Alfred	St. Albert	*55	May 28, 1900
Gaetz, James F.	Red Deer	*226	April 23, 1902
George, John	Kamloops	*478	June 13, 1904
Giddings, Thomas	Calgary	*489	Mar. 14, 1904
Grigat, John	Leduc	*533	April 18, 1904
Gobel, H. C.	Edmonton	*543	April 18, 1904
Gardner, Marques	Red Deer	*780	Mar. 24, 1905
Green, John	Medicine Hat	2285	May 25, 1912
Gallup, Walter E.	Medicine Hat	*858	June 14, 1905
Grote, Frank	Bon Accord	*890	Aug. 31, 1905
Griffen, Henry	Stavely	11	Sept. 16, 1905
Grote, Alex. E.	Spruce Grove	65	Mar. 16, 1906
Graf, John	Fort Saskatchewan ..	92	April 11, 1906
Garneau, Larry	Strathcona	224	Sept. 13, 1906
Godley, Maurice W.	Red Deer	238	Sept. 27, 1906
Grant, Farquhar	Edmonton	267	April 29, 1907
Glaspie, Ed. H.	Hurry	331	May 31, 1907
Grue, Simon T.	Camrose	394	June 14, 1907
Grove, Benj. K.	Camrose	404	June 14, 1907
Grant, George F.	Lewisville	412	June 14, 1907
Galentine, Frank	High River	434	June 19, 1907
Giese, Gottlieb W.	Spruce Grove	499	Oct. 15, 1907
Graham, Willard	Crossfield	519	Oct. 24, 1907
Gwilt, George	Didsbury	528	Oct. 24, 1907
Gray, John A.	Claresholm	576	Mar. 23, 1908
Gray, John A.	Claresholm	2755	May 13, 1914
Gibson, Wm. H.	Coleman	601	April 8, 1908
Gerrard, John	Lundbreck	2625	Sept. 18, 1913
Girber, Dan E.	Sunny Slope	648	April 4, 1908
Gillett, Geo. I.	Carstairs	681	May 1, 1908
Grundy, James	Bowden	684	May 1, 1908
Greene, Geo. A.	Edmonton	708	May 18, 1908
Gustafson, Ivan	Leduc	1375	April 19, 1910
Gibbs, Jas. A.	Delnorte	715	May 18, 1908
Gray, Wm. J.	Fort Vermilion	739	Aug. 6, 1908
George, Wm. S.	Peace River Crossing ..	740	Aug. 6, 1908
Graham, John M.	Athabasca Landing ..	746	Aug. 13, 1908
Gotobed, B.	Strathcona	776	Sept. 18, 1908
Gale, Sidney H.	Calgary	791	Sept. 24, 1908
Gillies, Wm.	Strathcona	872	Dec. 23, 1908
Goodfellow, James	Calgary	118	April 30, 1906
Goeson, Geo. J.	Granum	912	Mar. 30, 1909
Gilmore, David	Frank	913	Mar. 30, 1909
Gibb, David T.	Raymond	990	April 20, 1909
Gusa, Ernest E.	Calgary	1013	April 25, 1909
Grobe, Charles W.	Shepard	1023	April 28, 1909
Geertruyden, H. Van	Edmonton	1086	July 25, 1909
Gilmore, Charles R.	Red Willow	1091	Aug. 27, 1909
Gullekson, Edwin L.	Wetaskiwin	1195	Sept. 7, 1909

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Guertin, Joseph E.	Bowville	1101	Sept. 15, 1909
Gowdy, Wm. T.	Airdrie	1119	Sept. 21, 1909
Green, Jay H.	Brant	1120	Sept. 21, 1909
Grimoldby, Walter H.	Strathcona	1161	Sept. 29, 1909
Gobell, Edward	Royal View	2266	May 18, 1912
Grigat, John Jr.	Leduc	1286	April 1, 1910
Gunderson, Ingval J.	Warner	1360	April 14, 1910
Grudl, Stephen	Manfred	1404	May 17, 1910
Goodwin, Wm.	Strathcona	1448	July 15, 1910
Gerrie, George	Oxville	1496	Sept. 16, 1910
Gibbons, George A. R.	Batenburg	1497	Sept. 16, 1910
Giese, Daniel	Spruce Grove	1498	Sept. 16, 1910
Guess, Herbert	Pincher Creek	1567	Oct. 20, 1910
Gosling, Frederick	Morley	1580	Nov. 14, 1910
Gilmer, Allan	Provost	1673	Mar. 24, 1911
Gerchke, Wm.	Walsh	1752	April 15, 1911
Green, Chas. L.	Calgary	1764	April 19, 1911
Gross, Hy. A.	Burdette	1702	Mar. 31, 1911
Graham, Oscar J.	Grassy Lake	1703	Mar. 31, 1911
Gardner, Fred W.	Dalroy	1737	April 10, 1911
Gray, Jesse L.	Macleod	1782	April 24, 1911
Gunderson, Cornelius	Warner	1827	May 26, 1911
Graham, Wm. Robert	Summerview	1828	May 26, 1911
Gray, Wallace C.	Edmonton	1844	June 9, 1911
Gray, Wallace C.	Edmonton	2748	May 7, 1914
Greenwood, Joseph	Calgary	2532	April 21, 1913
Green, John Hy.	Staunton	1877	July 13, 1911
Greenwood, John	Calgary	1899	Aug. 22, 1911
Graham, Wm. A.	Coaldale	1908	Aug. 24, 1911
Gray, Irving	Yetwood	1909	Aug. 24, 1911
Gray, Elgin W.	Entwistle	2330	July 16, 1912
Gaugner, Arthur O.	Lethbridge	1977	Oct. 24, 1911
Gray, Luke Charles	Calgary	2367	Sept. 10, 1912
Gellhorn, Wilhelm	Strathcona	1594	Dec. 10, 1910
Gellhorn, Wilhelm	Strathcona	2425	Dec. 13, 1912
Gloer, Harrison	Iron Springs	2059	Mar. 13, 1912
Goetz, Emil Jos.	Evergreen	2075	Mar. 18, 1912
Graf, John Peter	Independence	2100	Mar. 25, 1912
Ganser, Moritz A.	Provost	2139	April 18, 1912
Greenwood, Geo. F.	Warner	2150	April 16, 1912
Grant, Wm. Jr.	Killam	2167	April 20, 1912
Gair, David	Strome	2168	April 20, 1912
Griggs, Ralph	Suffield	2171	April 23, 1912
Gardner, Harold M.	Medicine Hat	2178	April 23, 1912
Gaskell, Edwin	Edmonton	2201	April 25, 1912
Grainger, Albert	Wainwright	2215	April 29, 1912
Gilkinson, Robert J.	Clover Bar	2223	April 29, 1912
Goldsmith, Oliver	Ethelwyne	2224	April 29, 1912
Goodwin, Edwin C.	Bassano	2275	May 22, 1912
Graham, John	Edmonton	2560	May 8, 1913
Grimoldsby, John D.	Strathcona	2313	June 17, 1912
Griffith, Louis O.	Calgary	2341	July 18, 1912
Galonot, Ernest L.	Cowley	2352	July 19, 1912
Gueker, Stephen M.	Big Valley	2409	Oct. 23, 1912
Glennon, Joshua	Banff	2421	Dec. 4, 1912
Godby, Allen C.	Edmonton	2446	Jan. 13, 1913
Gordon, Stafford G.	Calgary	2451	Jan. 15, 1913
Grant, Henry	Medicine Hat	2520	April 15, 1913
Garrett, James W.	Lamont	2549	April 26, 1913
Grundy, Harold	Edmonton	2550	April 26, 1913

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	CERT. NO. OF	DATE OF ISSUE.
Third Class—Continued			
Grant, Andrew	Edmonton	2554	May 3, 1913
Graham, Alex.	Fort Saskatchewan ..	2607	July 17, 1913
Gillespie, Sam C.	Calgary	2614	Aug. 11, 1913
Gardner, Jack	Calgary	2732	April 21, 1914
Green, Ernest J.	Edmonton	2781	June 22, 1914
Gosden, Robt. Wm.	Edmonton S.	2810	Aug. 17, 1914
Grey, Wm. Martin	Redcliff	2815	Aug. 20, 1914
Hewer, Jesse J.	Strathcona	*24	Oct. 9, 1899
Harrold, David	Edmonton	*54	May 28, 1900
Heffner, Frank	Bruederheim	*92	Nov. 15, 1900
Holden, J. A.	Strathcona	*114	Dec. 31, 1900
Hober, John W.	Ponoka	*214	Jan. 7, 1902
Harris, Ed. S.	Star	*327	Dec. 18, 1902
Hudson, Arthur C.	Edmonton	*330	Jan. 6, 1903
Hehsdoerfer, Jos.	Edmonton	*359	May 13, 1903
Haney, Sylvester	Lacombe	*482	Jan. 28, 1904
Houghstol, Anton	Wetaskiwin	*516	April 18, 1904
Harrold, John Jr.	Edmonton	*534	April 18, 1904
Hankehadl, Edgar O.	Duhamel	*785	May 27, 1905
Hardy, Albert Wm.	Lake de May	878	Feb. 10, 1909
Henschel, August	Strathcona	49	Sept. 23, 1905
Hart, Wm. J.	Raymond	22	Sept. 16, 1905
Hacking, Geo. A.	Magrath	23	Sept. 16, 1905
Haybarger, Chas. A.	Fort Saskatchewan ..	34	Sept. 16, 1905
Hewitt, Robert E.	Bon Accord	38	Sept. 18, 1905
Hays, Morion L.	Tofield	91	April 11, 1906
Headley, Henderson	Medicine Hat	88	April 11, 1906
Higgins, James A.	Medicine Hat	87	April 11, 1906
Humbke, Detriche E.	Battle River	101	April 20, 1906
Hunter, Wm. John	Fort Saskatchewan ..	109	April 24, 1906
Hobson, Patrick J.	Strathcona	130	May 4, 1906
Hunter, Fred H.	Didsbury	151	May 31, 1906
Hallett, Geo. E.	Camrose	163	July 7, 1906
Henry, Ortus	Claresholm	177	Aug. 13, 1906
Heighington, J. H.	Rosenroll	1321	April 7, 1910
Hammitt, J. A.	Wetaskiwin	234	Sept. 20, 1906
Harris, A. J.	Chipman	223	Sept. 13, 1906
Hardy, Wm. B.	Edmonton	270	April 29, 1907
Hellemrs, John	Millet	276	May 15, 1907
Hitchcock, Arthur L.	Pine Lake	292	May 20, 1907
Harris, Ed.	Mayton	303	May 23, 1907
Hardman, Geo. S.	Mayton	306	May 23, 1907
Hilts, Neil A.	Didsbury	314	May 29, 1907
Huff, Wm. H.	Crossfield	315	May 29, 1907
Harrison, David R.	Lamont	333	May 31, 1907
Handley, J. T.	Valley City	370	June 7, 1907
Hauser, John R.	Strome	387	June 14, 1907
Hauser, George W.	Strome	401	June 14, 1907
Halstead, Arthur L.	Edberg	407	June 14, 1907
Hoar, Wm. J.	Berry Bank	409	June 14, 1907
Hartt, Guy C.	High River	421	June 19, 1907
Herron, John A.	Nanton	915	May 30, 1909
Honan, John E.	High River	431	June 19, 1907
Hislop, Thos. L.	Taber	443	June 15, 1907
Havervold, Robt. L.	Lethbridge	462	July 15, 1907
Henderson, Clifton C.	Elinor	470	July 15, 1907
Heitman, Herman	Pincher Creek	473	July 15, 1907
Hicks, Ephriam B.	Raymond	474	July 15, 1907
Harding, Norris H.	Lethbridge	848	Oct. 6, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Hallman, Sydney E.	Carstairs	488	Oct. 12, 1907
Horne, Ned	Edmonton	506	Oct. 15, 1907
Healey, Jos.	Bankhead	548	Dec. 5, 1907
Henderson, John H.	Taber	554	Dec. 26, 1907
Harris, Geo. A.	Calgary	555	Jan. 20, 1908
Horwood, Walter E.	Calgary	560	Jan. 20, 1908
Hyde, Geo. T.	High River	581	Mar. 23, 1908
Hutchings, Percy J.	Edmonton	595	April 2, 1908
Howard, Sam	Frank	1076	Mar. 18, 1912
Hills, Wm. C.	Hillcrest	624	April 9, 1908
Hilts, Simon W.	Didsbury	654	April 15, 1908
Hoy, Walter M.	Medicine Hat	665	April 27, 1908
Haskins, Martin	Vermilion	670	April 27, 1908
Hayes, Fred J.	Vermilion	671	April 27, 1908
Hayes, Fred J.	Vermilion	2729	April 17, 1914
Hall, Richard	Lloydminster	673	April 27, 1908
Higginson, R. R.	Kitscoty	677	April 27, 1908
Holgate, John	Airdrie	685	May 1, 1908
Haselwood, Alfred W.	Rosenroll	701	May 7, 1908
Hunting, Humphrey W.	Lacombe	769	Sept. 14, 1908
Holbrook, Peter E.	Stettler	2502	Mar. 31, 1913
Hanlan, W. J.	Edmonton	777	Sept. 18, 1908
Haeflin, Mark E.	Exshaw	793	Sept. 22, 1908
Henderson, Alex.	Granum	830	Oct. 2, 1908
Hendrickson, John	Claresholm	831	Oct. 2, 1908
Henderson, Robert	Lethbridge	958	April 9, 1909
Hatfield, Chas. L.	Blayney	968	April 16, 1909
Hanson, Peter C.	Cleversville	977	April 20, 1909
Hultgren, Victor	Stavely	987	April 20, 1909
Horne, Geo. Jr.	Edmonton	982	April 20, 1909
Hall, David N.	Grassy Lake	993	April 30, 1909
Honeywell, Sid C.	Sedgewick	997	April 22, 1909
Hough, Oscar	Camrose	998	April 22, 1909
Haugen, Peter M.	Bardo	999	April 22, 1909
Hardy, Herbert J.	Exshaw	2680	Jan. 12, 1914
Henderson, A. J.	Langdon	1025	April 28, 1909
Hauptert, John	Lewisville	1044	April 30, 1909
Hunter, James S.	Edmonton	1064	May 21, 1909
Hendrie, Jas. M.	Lethbridge	1102	Sept. 15, 1909
Herman, Charles	Queenstown	1121	Sept. 21, 1909
Hutchinson, Fred	High River	1122	Sept. 21, 1909
Herrick, Oscar F.	Eyremore	1123	Sept. 21, 1909
Hiney, Allan	Cochrane	1124	Sept. 21, 1909
Hatfield, Wilmer B.	Lethbridge	1178	Nov. 13, 1909
Hawkes, Wm.	Edmonton	1185	Dec. 4, 1909
Heighs, Geo. Jr.	Iron Springs	1225	Mar. 15, 1910
Hewitt, James R.	Cowley	1251	Mar. 21, 1910
Homer, Samuel C.	Claresholm	1275	Mar. 29, 1910
Hazelwood, Ernest Wm.	Bittern Lake	1287	April 1, 1910
Hauser, Anthony B.	Strome	1288	April 1, 1910
Hicks, Frank I.	Raymond	1315	April 7, 1910
Harris, Thomas Wm.	Raymond	1316	April 7, 1910
Hislop, Wilber	Calgary	1320	April 7, 1910
Hendrickson, Edwin	Crossfield	1335	April 11, 1910
Hickox, Wm. C.	Cochrane	1336	April 11, 1910
Holte, Ole	Logan	1347	April 13, 1910
Hansen, Fred	Viking	1348	April 13, 1910
Hammer, Leo	Lethbridge	1358	April 14, 1910
Hipp, Wm.	Taber	1371	April 15, 1910
Herrick, Weston M.	Cleversville	1387	April 22, 1910

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	CERT. NO. OF	DATE OF ISSUE.
Third Class—Continued			
Harder, Andrew J.	Medicine Hat	1394	April 25, 1910
Harold, John	Lethbridge	1412	May 21, 1910
Hamilton, Walter	Olds	1419	June 9, 1910
Hamilton, John	Pincher Creek	1424	June 11, 1910
Hughes, Robert Samuel	Cardiff	1443	July 14, 1910
Hall, Jesse D.	Stirling	1466	Aug. 30, 1910
Horn, Peter	Lethbridge	1467	Aug. 30, 1910
Horn, Wm.	Lethbridge	1478	Sept. 1, 1910
Hansen, Arney	Millet	1605	Jan. 20, 1911
Hill, Geo. S.	Edmonton	1499	Sept. 16, 1910
Harwood, Thos. R.	Stettler	1515	Sept. 21, 1910
Hohle, John F.	Calgary	1523	Sept. 23, 1910
Heaton, Frank	Edmonton	1528	Nov. 15, 1910
Holte, M. D.	Kipp	1615	Mar. 7, 1911
Heyland, Wm. N.	Claresholm	1644	Mar. 16, 1911
Hough, Floyd G.	Calgary	1653	Mar. 20, 1911
Hough, Floyd G.	Calgary	2733	April 21, 1914
Halloran, Fred P.	Strathcona	1665	Mar. 22, 1911
Harding, Thos. H.	Edmonton	1666	Mar. 22, 1911
Hanna, Robert J.	Stirling	1680	Mar. 28, 1911
Howorth, Chas.	Calgary	1765	April 19, 1911
Hagen, Henry	Battle Lake	1718	April 5, 1911
Heisler, Jacob	Spring Lake	1719	April 5, 1911
Hennessy, Robert G.	Bassano	1748	April 10, 1911
Horton, Frank S.	Medicine Hat	1753	April 15, 1911
Harrison, Harley	Lethbridge	1783	April 24, 1911
Holmberg, John A.	Lucky Lake	1784	April 24, 1911
Harrington, Dan L.	Diamond City	1829	May 26, 1911
Horton, S. B.	Barons	1830	May 26, 1911
Hardy, Robert W.	Leduc	1846	June 9, 1911
Hoanor, Herbert N.	Medicine Hat	1863	June 20, 1911
Huff, W. P.	Edmonton	1880	July 15, 1911
Haine, Sanford	Edmonton	1881	July 18, 1911
Harwood, Walter	Castor	1892	Aug. 16, 1911
Hornberger, Raymond	Reid Hill	1910	Aug. 24, 1911
Hango, John J.	Red Deer	1929	Sept. 7, 1911
Henry, Wm. G.	Calgary	1934	Sept. 8, 1911
Hunerkoeh, Geo. W.	Magrath	1941	Sept. 9, 1911
Harris, John	Fishburn	1942	Sept. 9, 1911
Hossier, Chas. A.	Halkirk	1961	Oct. 18, 1911
Heighington, Frank H.	Bittern Lake	1962	Oct. 18, 1911
Houghton, Ernest	Calgary	1970	Oct. 20, 1911
Hatherell, Albert	Suffield	1979	Oct. 24, 1911
Hanson, William	Spring Lake	1989	Nov. 11, 1911
Holland, Milton C.	Noble	2016	Dec. 19, 1911
Harmon, Frank E.	Pincher Stn.	1978	Oct. 24, 1911
Harmon, Frank E.	Pincher Stn.	2432	Dec. 17, 1912
Hinkle, John F.	Carlstadt	2026	Jan. 16, 1912
Holmberg, Robert E.	Calgary	2037	Feb. 14, 1912
Halverson, John A.	Edgerton	2101	Mar. 25, 1912
Halvorsen, Arent C.	Metiskow	2140	April 10, 1912
Halvorsen, Henry G.	Metiskow	2141	April 10, 1912
Halvorsen, Holmer J.	Metiskow	2142	April 10, 1912
Holt, Olaf A.	Winnifred	2179	April 23, 1912
Holmgren, Walter	Edmonton	2196	April 24, 1912
Holmgren, Walter	Edmonton	2331	July 16, 1912
Hedlund, Victor	Wainwright	2197	April 24, 1912
Hoskins, James	Viking	2198	April 24, 1912
Haines, Charles M. J.	Calgary	2205	April 26, 1912
Hunter, Robert	Canmore	2206	April 26, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Hertel, Christian	Calgary	2207	April 26, 1912
Hertel, Christian	Calgary	2437	Dec. 18, 1912
Howard, Henry	Wainwright	2216	April 29, 1912
Hawryschuk, George	Mundare	2220	April 29, 1912
Harding, Montague C.	Manville	2230	April 29, 1912
Howes, Fred. R.	Stauffer	2254	May 3, 1912
Heinze, William Ed.	Coperville	2255	May 3, 1912
Haney, Edward	Bassano	2276	May 22, 1912
Hickman, Edward H.	Gleichen	2277	May 22, 1912
Hanna, Melvin	Edmonton	2314	June 17, 1912
Hindman, James	Medicine Hat	2353	July 19, 1912
Halsall, Joseph	Stavely	2368	Sept. 17, 1912
Hardy, Thomas	Lethbridge	2369	Sept. 17, 1912
Hathaway, Harold	Edmonton	2448	Jan. 13, 1913
Hudson, Benj. R.	Cardston	2398	Oct. 17, 1912
Hesse, William	Calgary	2438	Dec. 18, 1912
Harman, Noah S. A.	Edmonton	2426	Dec. 13, 1912
Hildebrandt, Oscar	Strathcona	2689	Feb. 16, 1914
Hallett, John	Castor	1674	Mar. 24, 1911
Hallet, John	Castor	2507	April 4, 1913
Hollinger, Peter	Edmonton	2447	Jan. 13, 1913
Hancock, Wesley E.	Medicine Hat	2454	Jan. 15, 1913
Hanson, Oscar	Calgary	2450	Feb. 12, 1913
Hanson, Eugene J.	Innisfail	2492	Mar. 26, 1913
Hayfield, John	Edmonton	2819	Aug. 28, 1914
Holoday, William B.	Rosenroll	2514	April 11, 1913
Hole, James	Medicine Hat	2521	April 15, 1913
Hanson, John E.	Bawlf	2562	May 12, 1913
Hampson, John	Edmonton	2596	June 21, 1913
Hutchinson, John W.	Medicine Hat	2601	July 10, 1913
Howard, William C.	Carlstadt	2604	July 15, 1913
High, Dan	Red Deer	2613	Aug. 9, 1913
Hacket, Walter	Taber	2617	Aug. 12, 1913
Hanna, Robert S.	Lacombe	2653	Dec. 13, 1913
Hughes, Hubert	Iron Springs	1616	Mar. 7, 1911
Hood, Torrance	Hillcrest	2704	Mar. 24, 1914
Haxton, James	Beverley	2712	April 2, 1914
Humphries, Ernest O.	Edmonton	2713	April 2, 1914
Henderson, James	New Norway	2725	April 16, 1914
Hucklesbee, Leonard	Edmonton	2743	April 29, 1914
Hamilton, Gilbert B.	Edmonton	2751	May 13, 1914
Hayes, Leslie L.	Lethbridge	2756	May 13, 1914
Hahn, August	Edmonton	2762	May 19, 1914
Henderson, Wm. P.	Okotoks	2778	June 20, 1914
Harrison, Sidney W.	Edmonton	2784	June 22, 1914
Hamilton, Leland S.	Fort Saskatchewan ..	2785	June 22, 1914
Haggarty, James J.	Grouard	2790	July 3, 1914
Hume, Thomas	Calgary	2816	Aug. 22, 1914
Handford, Percy	Innisfail	2821	Sept. 15, 1914
Imeson, George	Stony Plain	*206	Dec. 18, 1901
Ibson, Clause W.	Mewassin	*804	Mar. 31, 1905
Isaacson, Frank	Claresholm	191	April 13, 1906
Iverson, Olaf	Molstad	231	Sept. 20, 1908
Isherwood, Wm.	Calgary	588	Mar. 23, 1908
Ingram, Wm.	Leduc	860	Oct. 7, 1908
Isaacson, Willie	Claresholm	969	April 16, 1909
Illingworth, Joseph	Edmonton	983	April 20, 1909
Inglesby, E. C.	Edmonton	1180	Nov. 16, 1909
Imler, John C.	Okotoks	1326	April 8, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Ireland, James H.	Blairmore	1629	Mar. 11, 1911
Ingram, Wesley	Tofield	1697	Mar. 31, 1911
Ives, Albert J.	Grassy Lake	1704	Mar. 31, 1911
Ireland, Wm. James	Cardston	1911	Aug. 24, 1911
Iball, William	Kipp	2354	July 19, 1912
Isaacson, Arthur S.	Evarts	514	Oct. 22, 1907
Isaacson, Arthur S.	Evarts	2792	July 14, 1914
Jackson, Chas.	Calgary	*66	July 19, 1900
Joyner, Chas. A.	Bentley	*173	Oct. 2, 1901
James, Dunham D.	Didsbury	*321	Nov. 1, 1902
Jeune, Ivan	Wetaskiwin	*332	Feb. 13, 1903
Jamieson, Johnston	Ponoka	*353	April 24, 1903
Johnson, Conrid	Red Deer	*414	Aug. 29, 1903
Jameson, Charles W.	Ponoka	*644	Oct. 15, 1903
James, F. S.	Ponoka	28	Sept. 16, 1905
Johnson, Elijah	Canyon	61	Dec. 29, 1905
Johnson, Ed.	Diana	99	April 20, 1906
Jenson, Louis C.	Alix	114	April 25, 1906
Jones, Jack	Bankhead	140	May 14, 1906
Johnson, Benj. F.	Raymond	2470	Feb. 19, 1913
Jones, Fred.	Coleman	189	Aug. 13, 1906
Job, Charles	Strathcona	222	Sept. 13, 1906
Jordon, A. H.	Edmonton	271	April 22, 1907
Jesse, E.	Hardisty	284	May 15, 1907
Johnson, G. Anton	Didsbury	316	May 29, 1907
Johanson, Henry	Walsh	328	May 31, 1907
Johnson, Joseph	Medicine Hat	361	June 4, 1907
Jones, Arthur	Camrose	383	June 14, 1907
Johns, Thos. L.	Magrath	459	July 15, 1907
Jamieson, Jesse H.	Edmonton	505	Oct. 15, 1907
Johanson, John T.	Olds	521	Oct. 24, 1907
Journey, Clyde R.	Brant	582	Mar. 22, 1908
Jepson, Walter	Bellevue	612	April 8, 1908
Johnston, Percy W.	Edmonton	713	May 18, 1908
Johnson, Elmer	Daysland	716	May 18, 1908
Julien, Eugene	South Bend	720	May 18, 1908
Johnson, Charles J.	Stavely	832	Oct. 2, 1908
Jensen, Ole E.	Seven Persons	833	Oct. 2, 1908
Jones, Isaac	Raymond	849	Oct. 6, 1908
James, John E.	Taber	850	Oct. 6, 1908
Johnson, Alfred	Hillcrest	917	Mar. 30, 1909
Jackson, Thos. C.	Stettler	962	April 13, 1909
James, Griffith L.	Ponoka	975	April 17, 1909
Jones, Robert	Lethbridge	1103	Sept. 15, 1909
Jermaine, Stephen	Andrew	1038	April 29, 1909
Johnson, W. E.	Lethbridge	1058	May 4, 1909
Jones, Arthur W.	Edmonton	1060	May 20, 1909
Johnson, John G.	Millet	1065	May 21, 1909
Jones, Wm. Daniel	Edmonton	2289	May 29, 1912
Johnson, Charles J.	Onoway	1192	Jan. 10, 1910
Jones, Wm. C.	Bow Island	1226	Mar. 25, 1910
Jeanclaude, Leopold	Edmonton	1306	April 6, 1910
Jackson, Roy E.	Queenstown	1327	April 8, 1910
Jordan, Glen L.	Banff	1338	April 11, 1910
Jones, Albert E.	Rosebud Creek	1407	April 19, 1910
Johnsrud, Alfred	Harmattan	1552	Oct. 17, 1910
Johnson, Jas. F., Jr.	Barnwell	1568	Oct. 20, 1910
Jones, Samuel	Lethbridge	2657	Dec. 16, 1913
James, Reginald	Coleman	2823	Sept. 21, 1914

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Jensen, Rasmus	Raymond	1681	Mar. 28, 1911
Johnson, Wm. F.	Walsh	2021	Dec. 27, 1911
Jones, Wm. N.	Edmonton	1814	April 18, 1911
Jenkins, James	Coleman	2609	July 18, 1913
Jelly, Alf.	Calgary	1882	July 19, 1911
Johnson, Ellin	Calgary	1923	Aug. 26, 1911
Joseph, Orvil E.	Macleod	1935	Sept. 8, 1911
Jantzen, Peter H.	Calgary	1936	Sept. 8, 1911
Johnson, Benj. C.	Magrath	1943	Sept. 9, 1911
Johnson, Joseph	Blackie	2038	Feb. 14, 1912
Johnson, William	Ft. Chipewyan	2045	Feb. 22, 1912
Jones, Ray	Calgary	2239	May 1, 1912
Jackson, Geo. Alex.	Lignite	2263	May 8, 1912
Jeffry, Philip	Granum	2360	Aug. 14, 1912
Johannsen, Alfred	Calgary	2376	Sept. 19, 1912
Johnson, John Peter	Taber	2399	Oct. 17, 1912
Johnson, Herbert N.	Calgary	2477	Mar. 14, 1913
Jackson, Wm. H.	Markerville	2515	April 11, 1913
John, Thomas	Calgary	2572	May 19, 1913
Johnston, David J.	Peace River Crossing	2826	Sept. 23, 1914
Jones, William H.	Coronation	2852	Dec. 15, 1914
Jones, Thomas S.	Calgary	2854	Dec. 17, 1914
Krause, Otto	Innisfail	*171	Oct. 1, 1901
Kanngiesser, Simon	Lacombe	*521	April 18, 1904
Kelsey, A. F.	Clover Bar	1484	Sept. 2, 1910
Knapp, Henry H.	Edmonton	*645	Oct. 15, 1904
Kerwin, James	Leavings	*748	Mar. 16, 1905
Kolner, Bernard	Millet	*793	Mar. 27, 1905
Klapstein, Ed.	Ellerslie	*49	April 25, 1900
Krouse, Wilhelm	Spruce Grove	*819	April 14, 1905
Kallis, Ed.	Strathcona	*847	May 26, 1905
Knight, Harry P.	Edmonton	2838	Oct. 28, 1914
Krinke, August	Highland Park	46	Sept. 18, 1905
Kerr, John	Calgary	64	Mar. 9, 1906
Kennedy, Dent	Calgary	124	April 30, 1906
Karmangel, F. R.	Didsbury	154	May 31, 1906
Kiddle, Thos. M.	Stirling	165	Aug. 11, 1906
Kearney, W. J.	Claresholm	178	Aug. 13, 1906
Kjosness, Peder P.	Martins	217	Sept. 13, 1906
Kendrews, Jos. W.	Edwell	250	Oct. 5, 1906
Krinkle, Benj.	Highland Park	249	Oct. 5, 1906
Knowles, Kenneth E.	Wetaskiwin	264	April 25, 1907
Kremer, David H.	Innisfail	294	May 20, 1907
Kjorsvik, Albert	Eagle Hill	305	May 23, 1907
Kittlitz, Ed.	Bruederheim	329	May 31, 1907
Kenny, John	Calgary	918	Mar. 30, 1909
Knape, Ernest P.	Calgary	344	June 4, 1907
Keegan, Dan	Morley	355	June 4, 1907
Kreamer, Wm. W.	Strathcona	384	June 14, 1907
Keith, Scott	Taber	551	Dec. 26, 1907
Kniseley, Arthur C.	Standoff	1143	Sept. 21, 1909
Klein, Emil F.	Leduc	669	April 27, 1908
Kadlec, Frank	Wetaskiwin	712	May 18, 1908
Kinne, Fred	Calgary	750	Aug. 28, 1908
Kemp, Robert M.	Ruagh	816	Sept. 28, 1908
Keoster, Carl H.	Granum	834	Oct. 2, 1908
Keeler, Ralph A.	Lethbridge	851	Oct. 6, 1908
Kendrew, John T.	Edwell	888	Mar. 20, 1909
Kalis, Theodore	Edmonton	941	April 2, 1909

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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
King, Charles F.	Macleod	953	April 7, 1909
Knudson, Loues	Killam	1000	April 22, 1909
Knudson, Chas. A.	Wetaskiwin	1098	Sept. 10, 1909
King, Benj.	Lethbridge	1227	Mar. 15, 1910
Keffer, J. John	Frank	2707	Mar. 24, 1914
Kitchen, Elroy R.	Cayley	1265	Mar. 24, 1910
Kittlitz, Chrystian	Bruederheim	1307	April 6, 1910
Kneis, Louis	Stony Plain	1308	April 6, 1910
Krutz, John	Calgary	1328	April 8, 1910
Kincade, Jerry	Stirling	1372	April 15, 1910
Klinger, Hy.	Calgary	1428	June 14, 1910
Kjosness, Alfred	Martins	1501	Sept. 21, 1910
Kuhl, Edward	Stony Plain	1502	Sept. 21, 1910
Kinnen, Peter	Independence	1509	Sept. 21, 1910
Kruse, Herman	Hastings Coulee	1542	Oct. 7, 1910
Knight, O. L.	Taber	1586	Nov. 17, 1910
Kremper, Ernest	Edmonton	1589	Nov. 23, 1910
Kirkby, Theo	Lethbridge	1619	Mar. 7, 1911
Kolschorofsky, Ed.	Stony Plain	1698	Mar. 31, 1911
Kirstein, Aug.	Wetaskiwin	1720	April 5, 1911
Klaus, John S.	Gleichen	1739	April 19, 1911
Kincade, Wyet E.	Seven Persons	1796	April 24, 1911
Keller, Fred	Edmonton	2384	Sept. 27, 1912
Kemp, George F.	Calgary	1851	June 13, 1911
Kiviatniowsky, Joe	Heatherwood	1853	June 16, 1911
Klassen, Abm. W.	Acme	1900	Aug. 22, 1911
Kaatz, Ed. A.	Burdett	1912	Aug. 24, 1911
Kelly, John D.	Calgary	1937	Sept. 8, 1911
Kidd, George	Lethbridge	2029	Jan. 16, 1912
Kirkham, John T.	Macleod	2077	Mar. 18, 1912
Kerr, William	Coleman	2079	Mar. 18, 1912
Kilmer, Owen	Suffield	2130	April 4, 1912
Knight, Herbert	Therien	2228	April 29, 1912
Kinsella, Charles A.	Strathcona	2316	June 17, 1912
Kerr, John	Calgary	2342	July 18, 1912
Kuhl, Edward	Calgary	2375	Sept. 19, 1912
Kuhl, Edward	Calgary	2466	Feb. 13, 1913
Kirton, Thomas	Edmonton	2461	Feb. 12, 1913
King, George	Okotoks	2478	Mar. 14, 1913
Klentsche, Karl	Medicine Hat	2522	April 15, 1913
King, Archibald	Calgary	2681	Jan. 12, 1914
Kennedy, James	Calgary	2694	Feb. 19, 1914
Keller, Roy B.	Viking	2714	April 2, 1914
Kitchen, Willis E.	Edmonton	2715	April 2, 1914
Keiller, John Wm.	Red Deer	2726	April 16, 1914
Kinrade, John R.	Brooks	2736	April 23, 1914
Kennedy, William	Evansburgh	2739	April 27, 1914
Kane, William	Banff	2759	May 18, 1914
Kinsman, Frederick L.	Calgary	2824	Sept. 21, 1914
Lamoureux, Alcide	Lamoureux	*96	Nov. 15, 1900
Lee, George	Edmonton	2442	Dec. 20, 1912
Lewis, Wm. H.	Innisfail	*888	Aug. 28, 1905
Lamoureux, Alp.	Lamoureux	*186	Dec. 18, 1902
Loiselle, Jerry	Red Deer	1599	June 4, 1911
Lundy, Wm. Thomas	Innisfail	*227	April 23, 1902
Lynch, Alix W.	Blairmore	*259	Aug. 18, 1902
Lyseng, Knut K.	Bittern Lake	*390	Aug. 7, 1903
Lindberg, Erick	Calmar	*510	April 18, 1904
Langhausen, Jacob	Fort Saskatchewan ..	*523	April 18, 1904

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Langhausen, Peter	Fort Saskatchewan ..	*524	April 18, 1904
Lee, Andrew E.	Wetaskiwin	*525	April 18, 1904
Lehman, Harrison	Edmonton	*564	Feb. 15, 1908
Logan, John	Penhold	*774	Mar. 24, 1905
Logan, Dan	Red Deer	*783	Mar. 24, 1905
Lee, Oscar E.	Wetaskiwin	*788	Mar. 27, 1905
Long, Albert W.	Namoo	36	Sept. 16, 1905
Lindholm, Andrew G. J.	Burnt Lake	60	Dec. 29, 1905
Lee, Albert	Wetaskiwin	97	April 20, 1906
Laine, Francois P.	Bankhead	138	May 14, 1906
Lambe, Alex	Didsbury	150	May 30, 1906
Linkous, Jas. B.	Raymond	173	Aug. 13, 1906
Lindsay, Samuel D.	Strathcona	212	Sept. 13, 1906
Lennox, Jas. A.	Red Deer	251	Oct. 5, 1906
Luigi, Liega	Lille	256	Dec. 28, 1906
Lawrence, Frederick S.	Fort Vermillion	544	Oct. 29, 1907
Lawrence, Fenwick N.	Edmonton	260	Feb. 23, 1907
Lavoll, Lewis J.	Evarts	290	May 20, 1907
Lancaster, Robert V.	Calgary	736	July 24, 1908
Latam, Myron B.	Content	371	June 7, 1907
Lehman, Sam	Nanton	438	June 19, 1907
Lamoureux, Hermida	Lamoureux	502	Oct. 15, 1907
Lamoureux, Albert	Lamoureux	503	Oct. 15, 1907
Lee, Thos. H.	Olds	518	Oct. 24, 1907
Lewis, Lyman L.	Olds	526	Oct. 24, 1907
Lang, Wm.	Okotoks	566	May 23, 1908
Lyon, Omar	Blayney	571	May 23, 1908
Lee, John A.	Edmonton	592	April 2, 1908
Lee, Lars	Leduc	678	April 27, 1908
Loveless, Peter	Lloydminster	707	May 18, 1908
Lucas, Sam B.	Daysland	719	May 18, 1908
Lansing, George	Leavings	1455	Aug. 2, 1910
Littlefield, Chas. W.	Eagle Hill	909	Mar. 26, 1909
Lehman, Peter L.	Pincher Creek	931	April 1, 1909
Laut, Frank	Ena	945	April 6, 1909
Link, Ronald F.	Lethbridge	960	April 9, 1909
Lunn, Edward	Stettler	963	April 13, 1909
Lewis, Isaac H.	Killam	1001	April 22, 1909
Long, Geo. S.	Namoo	1039	April 29, 1909
Lunder, Andrew H.	Westerose	1045	April 30, 1909
Leonard, Jas. F.	Seven Persons	1049	May 1, 1909
Larson, Edwin H.	Seven Persons	1050	May 1, 1909
Lindsey, Horace F.	Strathcona	1075	May 26, 1909
Larson, Harry	Langdon	1079	June 1, 1909
LaBonte, Fred	Calgary	1125	Sept. 21, 1909
Laventure, Arthur	Beaumont	1146	Sept. 25, 1909
Lawrence, Herman M.	Ross Creek	1162	Sept. 29, 1909
Long, Herbert Wm.	Calgary	1187	Dec. 17, 1909
Lawrence, Sheridan	Fort Vermillion	741	Aug. 6, 1908
Laroux, Oliver	Chipewyan	742	Aug. 6, 1908
Lloyd, Roy A.	Carstairs	761	Sept. 11, 1908
Love, Thomas	Hicksburg	835	Oct. 2, 1908
Lindsay, Alvan, A.	Calgary	1598	Jan. 6, 1911
Long, Henry G.	Calgary	1450	July 15, 1910
Long, Henry G.	Calgary	1208	Mar. 7, 1910
Lewis, George H.	Calgary	1209	Mar. 7, 1910
Low, Ralph E.	Carmangay	1276	Mar. 29, 1910
Lloyd, John W.	Stavelly	1277	Mar. 29, 1910
Lotan, Herbt. N.	Strome	1289	April 1, 1910
Linquest, Nils W.	Rivierre Qui Barre ..	1309	April 6, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
LeBranc, Roaul	Mayton	1332	April 9, 1910
Lawrella, Michael	Bankhead	1339	April 11, 1910
Lindman, W. L.	Milk River	1359	April 14, 1910
Longacre, Fred	Taber	1373	April 15, 1910
Levisque, Walter	Medicine Hat	1395	April 25, 1910
Lunn, Arthur B.	Calgary	1401	April 26, 1910
Long, Jas. W.	Calgary	1408	May 19, 1910
Lane, Lewis W.	Bowville	1425	June 11, 1910
Long, Fred	Beiseker	1433	June 14, 1910
Lockhart, Wm.	Kipp	1479	Sept. 1, 1910
Lithgow, John	Reid Hill	1488	Sept. 6, 1910
Lorerm, John	Edmonton	1503	Sept. 24, 1910
Lighthall, Geo. B.	Bassano	1524	Sept. 23, 1910
Lambert, Arthur	Redcliff	1533	Sept. 24, 1910
LeGear, Russell C.	Wetaskiwin	1543	Oct. 7, 1910
Lindsay, Robert	Lethbridge	1620	Mar. 7, 1911
Labby, Alfred	La Calmette	1770	April 21, 1911
Lycan, Thos. S.	Bassano	1740	April 10, 1911
Lysham, J. E.	Taber	1756	April 15, 1911
Lambert, John A.	Taber	1785	April 24, 1911
Lee, Ed. A.	Calgary	1809	May 8, 1911
Laughery, James W.	Calgary	1821	May 20, 1911
Lister, Ossie	Lethbridge	1832	May 26, 1911
Lepard, Frank	Edmonton	1887	Aug. 11, 1911
Lake, Arch	Calgary	1901	Aug. 22, 1911
Lee, John J.	Rosemead	1913	Aug. 24, 1911
Little, Wm. H.	Lethbridge	1944	Sept. 9, 1911
Lambert, Wm. E.	Diamond City	1980	Oct. 24, 1911
Lewis, Gilbert B.	Granum	1984	Oct. 24, 1911
Lefort, Henry	Taber	2013	Dec. 19, 1911
Levis, Everett E.	St. Albert	2024	Jan. 12, 1912
Lacqueument, Edward C.	Yetwood	2031	Jan. 16, 1912
Lough, Marshall	Calgary	2039	Feb. 14, 1912
Lewis, Fred	Beaver Creek	2080	Mar. 18, 1912
Linton, William H.	Parkland	2092	Mar. 22, 1912
Lagasse, John L.	Edison	2102	Mar. 25, 1912
Lippold, Herman	Cardston	2157	April 19, 1912
Long, Charles W.	Medicine Hat	2180	April 23, 1912
Lippert, Jacob	Irvine	2181	April 23, 1912
Loritz, Frank	Strathcona	2218	April 29, 1912
Levy, Ira M.	Albion Ridge	2246	May 2, 1912
Lohrman, Chris	Halkirk	2256	May 3, 1912
Lundh, Bernard	Claresholm	2306	June 14, 1912
Little, Wm. John	Strathcona	2385	Sept. 27, 1912
Lee, William O.	Youngstown	2411	Oct. 23, 1912
Lerbeckmo, Peter O.	Bardo	2428	Dec. 13, 1912
Lindquist, Carl	Edmonton	2462	Feb. 12, 1913
Lee, James E.	Edmonton	2843	Nov. 19, 1914
Lemoine, Francis	Calgary	2533	April 21, 1913
Lain, John Theo	Edmonton	2948	Dec. 11, 1914
Lee, William S.	Edmonton	587	Aug. 2, 1904
Lees, Edward	Edmonton	2633	Sept. 25, 1913
Lindsay, Chas. B.	Greenshields	2740	April 27, 1914
Lamont, Hugh	P. R. Crossing	2700	Mar. 5, 1914
Lechlietner, Frank	Edmonton	2763	May 19, 1914
Lechlietner, A. Hugh	Edmonton	2764	May 19, 1914
Larson, Harry	Munson	2833	Oct. 20, 1914
Morkin, John	Dunbow	*39	Dec. 1, 1899
Martin, M. Z.	Morinville (susp.) ...	*56	May 28, 1900

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Mitchell, Tim W.	Red Deer	*119	Feb. 7, 1901
Mather, E. M.	Calgary	*133	June 6, 1901
Morden, Jacob R.	Lacombe	*187	Dec. 18, 1901
Moore, John R.	Innisfail	*190	Dec. 18, 1901
Munier, Wilfred	Stony Plain	*199	Dec. 18, 1901
Miller, Philip	Morinville	*201	Dec. 18, 1901
Meneely, Wm.	Edmonton	*204	Dec. 18, 1901
Mikethus, Michael	Leduc	*210	Dec. 18, 1901
Morkeberg, D.	Innisfail	*232	April 23, 1902
Martin, Henry E.	Wardner	*854	June 13, 1905
Mooney, W. S.	Lacombe	*513	April 18, 1904
Murray, A. A.	St. Albert	*536	April 18, 1904
Meunier, J. H.	Morinville	*537	April 18, 1904
Meredith, Wilbert	Edmonton	*538	April 18, 1904
Mathews, George	Strathcona	*636	Oct. 15, 1904
Morgan, Oscar	Strathcona	*643	Oct. 15, 1904
Maxfield, W. H.	Namoo	*646	Oct. 15, 1904
Mead, Francis A.	Pincher Creek	*678	Dec. 30, 1904
May, Daniel	Blairmore	*681	Jan. 21, 1905
Mew, John	Calgary	*750	Mar. 24, 1905
Muir, Wm. J.	Ponoka	1959	Sept. 23, 1911
Marler, Walter	Clover Bar	*799	Mar. 31, 1905
Mohr, John J.	Edmonton	*870	July 6, 1905
Morel, H. F.	Edmonton	37	Sept. 16, 1905
Melnyk, Wm.	Star	40	Sept. 18, 1905
Mason, Jas. D.	Clover Bar	43	Sept. 18, 1905
Moss, Richard	Edmonton	*81	Mar. 26, 1905
Mahood, Robert F.	Buford	94	April 11, 1906
Murray, Dan L.	Bentley	105	April 24, 1906
Mitchell, Jos. C.	Tees	111	April 25, 1906
Moritz, Henry C.	Olds	146	May 31, 1906
Moritz, Louis J. A.	Olds	148	May 31, 1906
Morkeberg, Holger	Markerville	157	May 31, 1906
Maxwell, Tim	Claresholm	180	Aug. 13, 1906
Murray, Thos. N.	Medicine Hat	171	Aug. 11, 1906
Muir, Geo. A.	Morrissey	877	Feb. 1, 1909
Maunchaw, Aug.	Strathcona	218	Sept. 13, 1906
Mead, Wm.	Edmonton	221	Sept. 13, 1906
Maxfield, George A.	Namoo	236	Sept. 13, 1906
Miller, Dick F.	Blackfalds	241	Sept. 27, 1906
Malcher, Charles	Wetaskiwin	246	Oct. 5, 1906
Miller, Jones P.	Delnorte	334	May 31, 1907
Morrison, Avar L.	Calgary	348	June 4, 1907
Martin, John C. B.	Calgary	2768	June 11, 1914
Moody, Jas. Wm.	Brocket	363	June 4, 1907
Morter, Chas. J.	Iowalta	2490	Mar. 20, 1913
Miller, Wm. H.	Brant	420	June 19, 1907
Morrow, Jos. W.	Roundup	460	July 15, 1907
Meldrum, David (Jr.)	Raymond	466	July 15, 1907
Manning, Jas. A.	Cowley	471	July 16, 1907
Munro, Milo	Gleichen	484	Aug. 28, 1907
Martin, Charles A.	High River	487	Sept. 4, 1907
Miller, Fred C.	Cooking Lake	496	Oct. 15, 1907
Munro, Fred	Innisfail	510	Oct. 22, 1907
Morden, John	Lacombe	925	Mar. 30, 1909
Malchow, G. E. A.	Earlville	538	Oct. 28, 1907
Mignault, Jos. C.	Calgary	579	Mar. 23, 1908
Middleton, Archie C.	Nanton	583	Mar. 23, 1908
Marshall, Frank P.	Spring Point	600	April 8, 1908
May, Alex S.	Lille	1631	Mar. 7, 1911

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Millar, T. B.	Burnt Lake	641	April 14, 1908
Marson, Chas. H.	Medicine Hat (dup.) ..	735	July 15, 1908
Mitchell, Franklin A.	Medicine Hat	664	April 27, 1908
Miles, James	Vermilion	667	April 27, 1908
Mark, David McK.	Manville	1189	Dec. 29, 1909
Marler, Jas. T.	Crossfield	683	May 1, 1908
Martin, Landis	Stettler	686	May 1, 1908
Millar, John F.	Bentley	694	May 6, 1908
Munro, Alex A.	Lockhart	696	May 6, 1908
Morris, Wm. H.	Wetaskiwin	698	May 6, 1908
Maurice, Frank E.	Edmonton	730	May 26, 1908
Maxwell, John W.	Cochrane	731	June 12, 1908
Morris, Jas. E.	Lochend	732	June 12, 1908
Morris, Jas. W.	Canmore	734	June 29, 1908
Mortön, Lewis R.	Athabasca Landing ..	745	Aug. 6, 1908
Mott, Henry J.	Red Deer	2760	May 18, 1914
Murray, James	Murray Valley	757	Sept. 8, 1908
Mortelette, H. C.	Edmonton	778	Sept. 18, 1908
Masse, Louis	Legal	788	Sept. 21, 1908
Mulligan, George B.	Bon Accord	789	Sept. 21, 1908
Miller, Jacob	Stony Plain	790	Sept. 21, 1908
Marshall, Robert E.	Raymond	852	Oct. 6, 1908
Murphy, Edward F.	Strathcona	875	Jan. 8, 1909
Morris, Andrew	Calgary	882	Mar. 19, 1909
Mitchell, Ava D.	Aldersyde	935	April 2, 1909
Munson, Jas. B.	Reid Hill	936	April 2, 1909
Moore, Corey G.	Macleod	954	April 7, 1909
Mudiman, David L.	Macleod	955	April 8, 1909
Myers, James	Claresholm	970	April 16, 1909
Myers, Roy C.	Claresholm	971	April 16, 1909
Mulligan, Jos.	Canmore	1026	April 28, 1909
Mundell, Wm. G. R.	Lethbridge	1054	May 3, 1909
Monson, Joseph	Camrose	1092	Sept. 7, 1909
Miller, James	Diamond City	1104	Sept. 15, 1909
Marr, Robert	Edmonton	1164	Sept. 29, 1909
Miller, Herman A.	Edmonton	1175	Oct. 27, 1909
Morris, John	Wild Horse	1177	Nov. 13, 1909
Muirhead, Jas. W.	Calgary	1210	Mar. 7, 1910
Mitchell, Wesley C.	Calgary	1211	Mar. 7, 1910
Morningstar, Roy	Lethbridge	1229	Mar. 15, 1910
Martin, Wm. A.	Lethbridge	1230	Mar. 15, 1910
Malchow, Fred C.	Claresholm	1278	Mar. 29, 1910
Mach, Jos.	Camrose	1291	April 1, 1910
Messmer, John F.	Hastings Coulee	1292	April 1, 1910
Mildon, Wm. L.	Ponoka	1301	April 5, 1910
Mueller, Mike M.	Warner	1361	April 14, 1910
Mahood, C. J.	New Dayton	1362	April 14, 1910
Mayberry, Thos. W.	Warner	1363	April 14, 1910
Mitchell, Wm.	Calgary	1386	April 21, 1910
Miles, John	Lethbridge	1388	April 22, 1910
Merkel, Jacob F.	Irvine	1396	April 25, 1910
Morley, Wm. N.	Morningside	1405	May 17, 1910
Mogridge, John Jas.	Copeville	1420	June 9, 1910
Molton, Earl	Calgary	1464	Aug. 29, 1910
Michaelis, Eddie	Milk River	1481	Sept. 1, 1910
Marshall, Wm. J.	Calgary	1525	Sept. 23, 1910
Malcolm, Roy	Calgary	1526	Sept. 23, 1910
Moses, George	Medicine Hat	1534	Sept. 24, 1910
Muir, George H.	Ponoka	1982	Oct. 24, 1911
Matson, Charles	Calgary	1577	Oct. 20, 1910

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Mudra, Charles	Frank	2081	Mar. 18, 1912
Matheson, Murdoch R.	Granum	1645	Mar. 15, 1911
Musser, Angus	Bassano	1654	Mar. 20, 1911
Mansell, Wm.	Canmore	1741	April 10, 1911
Moran, George I.	Langdon	1766	April 19, 1911
Martin, Wm.	Sandstone	2573	May 19, 1913
Martin, A. W.	Taber	1786	April 24, 1911
Maker, Edgar L.	Seven Persons	1787	April 24, 1911
Malton, John W.	Calgary	1806	May 6, 1911
Murrell, Vasco E.	Hardisty	1810	May 13, 1911
Melanson, Norman M.	Edmonton	1815	May 18, 1911
Mattison, Fred	Blairmore	1834	May 26, 1911
Murphy, Matthew	Granum	1835	May 26, 1911
Mayberry, J. R.	Red Deer	1855	June 17, 1911
Mah, Sam	Edmonton	1871	July 12, 1911
Miller, Wm. G.	Ryley	1893	Aug. 16, 1911
Merrit, Azra M.	Noble	1914	Aug. 24, 1911
Milligan, John L.	Burdett	1920	Aug. 25, 1911
Mickleeson, George A.	Calgary	2041	Feb. 14, 1912
Miniekler, John	Calgary	1925	Aug. 26, 1911
Morrison, Wm. V.	Red Deer	1930	Sept. 7, 1911
Miller, Edward S.	Spring Coulee	1945	Sept. 9, 1911
Meldrum, John C.	Lethbridge	1947	Sept. 9, 1911
Mullin, James	Edmonton	1955	Sept. 9, 1911
Mildren, Wm. George	Airdrie	1972	Oct. 20, 1911
Morgan, Jacob	Lethbridge	1981	Oct. 24, 1911
Melle, Ed. L.	Carlstadt	1994	Nov. 16, 1911
Melnyk, Fred	Star	2049	Feb. 23, 1912
Murray, Wm. B.	Magrath	2062	Mar. 13, 1912
Miller, Henry J.	Claresholm	2063	Mar. 13, 1912
Malchow, Max E.	Stavely	2645	Nov. 11, 1913
Morris, Ernest	Gladys	2111	Mar. 28, 1912
Mikshus, John	Leduc	2115	April 1, 1912
Mieklejohn, Lindsay	Provost	2144	April 10, 1912
Milligan, Morris	Purple Springs	2158	April 19, 1912
Montgomery, Geo.	Clover Bar	2233	April 29, 1912
Miller, Clarence H.	Raymond	2247	May 2, 1912
Moon, Wm. C.	Elkton	2257	May 3, 1912
Mills, Edward H.	Bentley	2258	May 3, 1912
Martin, Arthur	St. Paul de Metis	2324	July 12, 1912
Massicotte, Omer	St. Paul de Metis	2325	July 12, 1912
Mullock, James I.	Edmonton	2334	July 16, 1912
Manning, Timothy	Calgary	2343	July 18, 1912
Miller, Chas. C.	Calgary	2344	July 18, 1912
Murphree, William N.	Calgary	2345	July 18, 1912
Moulton, August	Clover Bar	2359	Aug. 12, 1912
Miller, Alex	Bassano	2363	Aug. 20, 1912
Murray, Thomas H.	Medicine Hat	2400	Oct. 17, 1912
Miller, John	Diamond City	2401	Oct. 17, 1912
Mitchell, Geo. Hy.	Calgary	2406	Oct. 19, 1912
Mackwood, Samuel	Lethbridge	2419	Nov. 13, 1912
Miller, Ellis G.	Edmonton	2429	Dec. 13, 1912
May, Albert	Bellevue	2433	Dec. 13, 1912
Mallott, Bernard B.	Calgary	2452	Jan. 15, 1913
Miller, David	Diamond City	2472	Feb. 19, 1913
Mack, Wilfred	Round Hill	2500	Mar. 28, 1913
Miller, Gilbert	Hillcrest	2544	April 23, 1913
Mowat, Jas.	Medicine Hat	2566	May 15, 1913
Moore, Jas.	Lethbridge	2568	May 15, 1913
Mitchell, Walter J. B.	Edmonton	2577	May 20, 1913

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Murdoch, George	Bassano	2771	June 17, 1914
Moller, George	Wainwright	2663	Dec. 17, 1913
Main, William R.	Calgary	2669	Dec. 17, 1913
Mjolsness, Alfred	Didsbury	2839	Nov. 14, 1914
Milton, Charles	Calgary	2696	Feb. 19, 1914
Moynes, Frederick	Medicine Hat	2702	Mar. 16, 1914
Murphy, Walter	Drumheller	2719	April 6, 1914
Martin, Henry F. A.	Edmonton S.	2730	April 17, 1914
Marsh, Geo. H.	Edmonton	2745	April 29, 1914
Murphy, Albert E.	Edmonton	2752	May 13, 1914
Machin, William S.	Coleman	2775	June 17, 1914
Mould, Samuel	Calgary	2799	July 18, 1914
Mills, Clinton Guy	Calgary	2800	July 18, 1914
Meitzler, Clarence E.	P. R. Crossing	2802	July 25, 1914
Moses, Gilbert R.	Lethbridge	2807	Aug. 12, 1914
Martin, Joseph A.	Edmonton	2829	Sept. 30, 1914
Makepeace, Walter C.	Banff	2836	Oct. 20, 1914
Mathie, John	Bankhead	2837	Oct. 20, 1914
Murphy, Francis	Calgary	2846	Nov. 23, 1914
McKernan, Jas.	Edmonton	*28	Oct. 9, 1899
McDonald, Findlay	Sturgeon	*86	Oct. 23, 1900
McLellan, Jno.	Fort Saskatchewan ..	*93	Nov. 15, 1900
McLeod, M. J.	Fort Saskatchewan ..	94	Nov. 15, 1900
McKellar, Jno.	Fort Saskatchewan ..	*95	Nov. 15, 1900
McKinley, Murdock	Stony Plain	*203	Dec. 18, 1901
McLean, Archibald	Lethbridge	*250	Aug. 18, 1902
McLean, Alix M.	Calgary	*347	Mar. 9, 1902
McGarry, Fred	Lacombe	*355	April 24, 1903
McDonald, Wm.	Penhold	*369	May 13, 1903
McConnell, Jas. R.	Red Deer	*372	May 13, 1903
McLean, Jas. A.	Star	*539	April 18, 1904
McDiarmid, A. D.	Edmonton	*540	April 18, 1904
McFayden, Jno. R.	Strathcona	*553	June 3, 1904
McDonald, Malcolm	Mountain Hill	*594	Sept. 14, 1904
McLeod, D. J. W.	Strathcona	766	Sept. 11, 1908
McKenzie, Dan	Lacombe	*760	Mar. 24, 1905
McInroy, Paul	Edwell	*773	Mar. 24, 1905
McEachern, Malcolm	Leduc	*792	Mar. 27, 1905
McCarthy, Jas.	Calmar	*793	Mar. 27, 1905
McDonald, Dan	Morinville	66	Mar. 16, 1906
McLaughlin, Chas.	Namao	68	Mar. 16, 1906
McCallum, Albert W.	Beaver Lake	95	April 18, 1906
McAnnaly, Peter J.	Crossfield	153	May 31, 1906
McLean, Wm. Jno.	Hillcrest	188	Aug. 13, 1906
McPherson, Jas. P.	Bentley	1416	May 22, 1910
McNutt, Watson	Medicine Hat	262	April 6, 1907
McCune, Oscar	Red Deer	289	May 20, 1907
McGregor, Wm. W.	Blackfalds	298	May 20, 1907
McDonell, Archie A.	Calgary	339	June 4, 1907
McIvor, David S.	Marwayne	388	June 14, 1907
McWhirter, Jas. A.	Camrose	408	June 14, 1907
McAllister, Donald C.	Lethbridge	1088	Aug. 20, 1909
McDonald, Geo. A.	Pincher Creek	454	July 15, 1907
McAllister, Alfred	Claresholm	468	July 15, 1907
McGhan, Silas S.	Clover Bar	493	Oct. 15, 1907
McLean, Laughlin	Innisfail	512	Oct. 22, 1907
McGuire, Thos.	Lacombe	535	Oct. 28, 1907
McLean, Garnet W.	Calgary	558	Jan. 20, 1908
McPhee, Jno.	Edmonton	596	April 2, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
McDonald, Hugh D.	Frank	605	April 8, 1908
McCutcheon, R. H.	Pincher Creek	631	April 9, 1908
McRae, Duncan A.	Taber	633	April 9, 1908
McRoberts, And	Pine Lake	644	April 14, 1908
McDougall, Wm.	Mewassin	655	April 22, 1908
McIvor, Wm.	Marwayne	668	April 27, 1908
McDermid, Alex. M.	Elkwater	703	May 14, 1908
McIntosh, Duncan D.	Three Hills	795	Sept. 22, 1908
McCall, Samuel D.	Pincher Creek	932	April 1, 1909
McPherson, Jabez B.	Bentley	946	April 6, 1909
McKenzie, John A.	Edmonton	1067	May 21, 1909
McPherson, Adam	Red Deer	1089	April 24, 1909
McKenzie, Geo.	Lethbridge	1106	Sept. 15, 1909
McKenzie, Wesley J.	Brant	1537	Sept. 28, 1910
McCausland, Chas. A.	Calgary	1973	Oct. 20, 1911
McCallum, Jos.	Beaver Lake	1163	Sept. 29, 1909
McAlister, Donald C.	Diamond City	1228	Mar. 15, 1910
McLaughlin, Lorne	Cardiff	1310	April 8, 1910
McLaughlin, Wm. E.	Okotoks	1329	April 8, 1910
McGibbon, Robt. F.	Taber	1374	Oct. 15, 1910
McCauley, Chas.	New Dayton	1426	June 11, 1910
McBlane, Donald	Cowley	1427	June 11, 1910
McPherson, Jno.	Calgary	2209	April 26, 1912
McTighe, Frank B.	Lethbridge	1437	July 8, 1910
McKennan, Felix	Cochrane	1449	July 15, 1910
McKnight, Dan	Calgary	1454	July 29, 1910
McPherson, Alec	Blairmore	1470	Aug. 31, 1910
McLeod, Jas. W.	Leslieville	1516	Sept. 21, 1910
McLeod, John B.	Innisfail	1517	Sept. 21, 1910
McGlenn, Lester S.	Lethbridge	1569	Oct. 20, 1910
McDonald, Wm. F.	Lethbridge	1570	Oct. 19, 1910
McAuley, Dan	Kipp	1621	Mar. 7, 1911
MacKay, Duncan	Sandstone	2671	Dec. 17, 1913
McLean, Jas.	Edmonton	1667	Mar. 25, 1911
McMullin, Alp. L.	Raymond	1682	Mar. 28, 1911
McLeod, Angus	Stettler	1721	April 5, 1911
McLaughlin, Jas. M.	Bassano	1742	April 10, 1911
McLean, Hugh	Cummings	1771	April 21, 1911
McLean, Niven P.	Berseker	1807	May 6, 1911
McGlen, Robt. M.	Lethbridge	1833	May 26, 1911
McDermid, Chas. C.	Alix	1854	June 17, 1911
McKerricher, W. R.	Pincher Creek	1864	June 20, 1911
McCrae, Ern A.	Lethbridge	1865	June 20, 1911
McLaughlin, Elmer	Edmonton	1896	Aug. 18, 1911
McClennand, Allan	Fishburn	1946	Sept. 9, 1911
McCarty, Jas. S.	Hand Hills	1995	Nov. 16, 1911
McAlduff, Edward	Camrose	2684	Feb. 3, 1914
McCall, Frank M.	Red Willow	2040	Feb. 14, 1912
McLellan, Murdock	Edmonton	2048	Feb. 23, 1912
McDonald, Robt. A.	Lethbridge	2121	April 2, 1912
McMahon, Jas. F.	Pleasanton	2143	April 10, 1912
McDaniel, Hugh C.	Whitla	2182	April 23, 1912
McInnis, William	Cummings	2222	April 29, 1912
McDonald, Wm. A.	Wainwright	2234	April 29, 1912
McRitchie, Murray	Coleman	2267	May 18, 1912
McMillen, Allan D.	Edmonton	2278	May 23, 1912
McClintock, Warren	St. Albert	2317	June 17, 1912
McDonald, Chas. E.	Edmonton	2318	June 17, 1912
McAuley, William	St. Paul de Metis	2332	July 16, 1912
McCann, John A.	Calgary	2364	Aug. 20, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
McDevitt, Wm. J.	Edmonton	2386	Sept. 27, 1912
McDonald, Angus	Edmonton	2387	Sept. 27, 1912
McTavish, Hugh R.	Fort Saskatchewan ..	2413	Nov. 8, 1912
McInroy, John C.	Innisfail	1555	Oct. 17, 1910
McInroy, John C.	Innisfail	2458	Jan. 24, 1913
McCutcheon, William	Edmonton S.	2047	Feb. 23, 1912
McCutcheon, William	Edmonton S.	2786	June 22, 1914
McMichael, Ernest W.	Calgary	2467	Feb. 13, 1913
McIntosh, Harry	Cardston	2471	Feb. 19, 1913
McIntee, James	Beaver Mines	2487	Mar. 19, 1913
McCarthy, William	Entwistle	2493	Mar. 26, 1913
McDevitt, Jas. J.	Tofield	2553	May 3, 1913
McClellan, Daniel	Entwistle	2576	May 20, 1913
McKay, Charles	Macleod	2587	June 19, 1913
McGinnis, James	Burmis	2834	Nov. 8, 1913
McCulloch, Wm. H.	Lundbreck	2658	Dec. 16, 1913
McKenzie, David A.	Edmonton	2677	Jan. 12, 1914
McNeil, Duncan	Bassano	2695	Feb. 19, 1914
McCartney, Grant	Edmonton	2744	April 29, 1914
McCubbins, Chas. H.	Brooks	2754	May 13, 1914
McDonald, John	Beaver Mines	2776	June 17, 1914
McRae, Daniel	Vermilion	2793	July 16, 1914
MacKenzie, Roderick	Edmonton	2811	Aug. 17, 1914
McLeod, William J.	Calgary	2817	Aug. 22, 1914
McNeill, Rowland E.	Ogden	2835	Oct. 20, 1914
McCrae, Richard	Edmonton	2849	Dec. 11, 1914
McCracken, Thomas	Clover Bar	2850	Dec. 11, 1914
Nelson, Frank	Wetaskiwin	*60	May 30, 1900
Nichol, David	Innisfail	*191	Dec. 18, 1901
Noyes, Dan E.	St. Albert	*197	Dec. 18, 1901
Nichols, Jas. J.	Edmonton	*358	May 13, 1903
Niven, Jno.	Lethbridge	*451	Oct. 6, 1903
Nehr, Wm. A.	Edmonton	75	Mar. 26, 1906
Nehr, Henry R.	Edmonton	245	Sept. 28, 1906
Noel, Kenneth E.	Canyon	113	April 25, 1906
Nelson, Wilfred	Calgary	119	April 30, 1906
Nelson, Arthur W.	Edmonton	132	May 10, 1906
Neeb, Louis	Edmonton	161	June 5, 1906
Nichols, Alex. J.	Edmonton	220	Sept. 13, 1906
Neis, Geo. M.	Lamerton	228	Sept. 20, 1906
Norlie, Hackon C.	Edmonton	501	Oct. 15, 1907
Nixon, Robt. J.	Crossfield	524	Oct. 24, 1907
Neis, Philip	Lamerton	530	Oct. 24, 1907
Neilson, George	Haynes	540	Oct. 28, 1907
Nadeau, T. Eudore	Lavoy	675	April 27, 1908
Nichols, Wm. R.	Edmonton	729	May 26, 1908
Neufeld, Abraham J.	Neopolis	762	Sept. 11, 1908
Neufeld, Peter W.	Noelton	763	Sept. 11, 1908
Neate, Harry	Edmonton	779	Sept. 18, 1908
Newsome, Wm. H.	Calgary	796	Sept. 22, 1908
Norgaard, Peter J.	Calgary	797	Sept. 22, 1908
Norton, Paul	Reid Hill	836	Oct. 2, 1908
Nemsgern, Jno.	Claresholm	837	Oct. 2, 1908
Neville, Fred R.	Mountain View	853	Oct. 6, 1908
Norrie, Jas.	Medicine Hat	1051	May 1, 1909
Nelson, Peter I.	Amisk	1093	Sept. 7, 1909
Naylor, Edward H.	Morinville	1165	Sept. 29, 1909
Nelson, Chrest	Medicine Hat	1186	Dec. 17, 1909
Nicholson, John M.	Lundbreck	1253	Mar. 21, 1910

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Neil, N. Walter	Coleman	1471	Aug. 31, 1910
Needham, Harry H.	Edmonton	1606	Jan. 23, 1911
Noble, William John	High River	1656	Mar. 20, 1911
Nelson, Willard T.	Sunnyslope	1722	April 5, 1911
Nichols, John D.	Lethbridge	1788	April 24, 1911
Nelson, Joseph	Brant	2112	Mar. 28, 1912
Noland, Lars	Cardston	2122	April 2, 1912
Nelson, Charles F.	Bonnie Glen	2145	April 10, 1912
Nelson, Ernest W.	Calgary	2210	April 26, 1912
Neufeld, Abram W.	Noelton	2259	May 3, 1912
Neggerson, Edward	Calgary	2279	May 22, 1912
Nelson, Earl Alex	Calgary	2365	Aug. 20, 1912
Nickerson, Joseph H.	Strome	2578	May 20, 1913
Nicholls, Milton P.	Edmonton	*740	Mar. 16, 1905
Nagel, Philip	Edmonton	2753	May 13, 1914
Ottewell, Richard P.	Edmonton	*27	Oct. 9, 1899
Omand, John	Edmonton	*522	April 14, 1904
Olsen, H. B.	Ellerslie	*542	April 18, 1904
Oliver, Wesley N.	Wostok	*814	April 14, 1905
Olsen, Gilbert E.	Star	2358	Aug. 8, 1912
Ottewell, Albert	Clover Bar	77	Mar. 26, 1906
O'Dell, Geo. W.	High River	733	June 22, 1908
Orford, Andrew B.	Macleod	478	July 15, 1907
Oberg, Knute L.	Strathcona	491	Oct. 15, 1907
Oliver, Peter C.	Calgary	562	Jan. 20, 1908
Oakes, Louis D.	Claresholm	567	Mar. 23, 1908
O'Connor, Jno.	Mossleigh	568	Mar. 28, 1908
Oler, Geo., Jr.	Stirling	602	April 8, 1908
Orser, John R.	Tristram	1333	April 9, 1910
O'Reilly, C.	Bells Hill	784	Sept. 18, 1908
Olson, Matz	Wilton Park	817	Sept. 28, 1908
Oster, Carl	Good Hope	818	Sept. 28, 1908
Orr, Alf. E.	Irvine	854	Oct. 6, 1908
Osborne, Homer	Taber	855	Oct. 6, 1908
Olsen, Elmer A.	Prairie View	891	Mar. 24, 1909
Ostby, Anton	Strathmore	1027	April 28, 1909
O'Brien, Roy	Raymond	1107	Sept. 15, 1909
Orr, Joshua	Irvine	1154	Sept. 28, 1909
Ostlund, Gustav	Stirling	1231	Mar. 15, 1910
O'Connell, Patrick B.	Raymond	1317	April 7, 1910
Ohlson, Carl L.	Millarville	1409	May 19, 1910
Ohrn, Carl H.	Ohrnville	1557	Oct. 17, 1910
Omang, Carl A.	Stettler	1675	Mar. 24, 1911
Ostby, Charles	Milk River	1688	Mar. 29, 1911
Ormson, Joseph J.	Ryley	1699	Mar. 31, 1911
Oliver, Robt. T.	Grassy Lake	1705	Mar. 31, 1911
O'Connor, Pat J.	Carlstadt	1744	April 10, 1911
Odell, Ed.	Calgary	1822	May 20, 1911
Ottewell, Arthur J.	Clover Bar	1894	Aug. 16, 1911
Olsen, J. Gilbert	Burdett	1915	Aug. 24, 1911
Olson, Albert Jos.	Coleman	2030	Jan. 16, 1912
O'Daniels, John W.	Coaldale	2064	Mar. 13, 1912
O'Rourke, John O.	Irma	2104	Mar. 25, 1912
Olberg, Christian	Holden	2199	April 24, 1912
O'Neil, Thomas A.	Mile 43	2238	April 30, 1912
Ottewell, Wm. R.	Clover Bar	2264	May 8, 1912
Olson, Frank Oscar	Calgary	2346	July 18, 1912
Oxford, Stephen	Edmonton	2388	Sept. 27, 1912
Oaks, John W.	Edmonton	2430	Dec. 13, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Orvold, Arne E.	Redcliff	2475	Mar. 10, 1913
Olson, Olaf	Pocahontas	2494	Mar. 26, 1913
O'Neil, Edward	Kananaskis	2511	April 7, 1913
Olson, Ole M.	Blairmore	2610	July 18, 1913
O'Hara, Charles R.	Edmonton	2620	Aug. 21, 1913
Ogden, Herman E.	Pincher City	2708	Mar. 24, 1914
Oliver, William	Calgary	2697	Feb. 19, 1914
O'Hara, Arthur J.	Carmanagay	2721	April 15, 1914
Ousman, Joel	Calgary	2779	June 20, 1914
Orr, Ernest Joseph	Edmonton	2851	Dec. 11, 1914
Pierce, Geo. J.	Red Deer	*46	Mar. 8, 1900
Pearce, Jas.	Edmonton	*87	Oct. 23, 1900
Putman, Albert E.	Edmonton	*202	Dec. 18, 1901
Powell, James A.	Edmonton	*208	Dec. 18, 1901
Pearce, Wm.	Edmonton	*229	April 23, 1902
Pimm, Jno.	Lethbridge	*258	Aug. 18, 1902
Pullshiy, Wm.	Star	*384	June 23, 1903
Pullesen, Peter	Calgary	*492	Mar. 14, 1904
Piper, F. E.	Red Deer	*546	April 18, 1904
Porter, Gerard A.	Red Deer (dup.)	*851	June 6, 1905
Peterson, Robt. F.	Wetaskiwin	*789	Mar. 27, 1905
Pipegrass, Fred'k	Raymond	24	Sept. 16, 1905
Pearson, Herbert S.	Red Deer	62	Dec. 29, 1905
Pefluger, Geo.	Wetaskiwin	98	April 20, 1906
Peterson, Martin E.	Claresholm	179	Aug. 13, 1906
Pitmann, Wm. T.	Wetaskiwin	279	May 15, 1907
Pratt, Arthur W.	Three Hills	300	May 23, 1907
Patterson, Johnston	Strathcona	308	May 23, 1907
Pyle, Joshua	Langdon	354	June 4, 1907
Peterson, Alfred L.	Heather Brae	397	June 14, 1907
Phillips, Fred H.	Frank	476	July 15, 1907
Pylypow, Wasyi	Star	504	Oct. 15, 1907
Prehn, Emil N.	Strome	508	Oct. 15, 1907
Peterson, Fred A.	Wetaskiwin	529	Oct. 28, 1907
Page, Sam Jas.	Lacombe	532	Oct. 28, 1907
Pethick, Roy W.	Okotoks	1331	April 8, 1910
Pozin, Otto E.	Claresholm	577	Mar. 23, 1908
Peat, Geo. A.	Lethbridge	611	April 8, 1908
Power, Eugene	Lethbridge	615	April 8, 1908
Peat, Jas. T.	Lethbridge	619	April 8, 1908
Phillips, Walter I.	Magrath	620	April 9, 1908
Peters, Andy	Blairmore	621	April 9, 1908
Peterson, Anton	Evarts	638	April 14, 1908
Piersall, Wm. S.	Harmattan	646	April 14, 1908
Putnam, Orlean E.	Edmonton	666	April 27, 1908
Pail, Jos., Jr.	Prague	717	May 18, 1908
Phillips, Wm. J.	Clover Bar	725	May 18, 1908
Papineau, Francis C.	Battle Lake	727	May 18, 1908
Parker, David L.	Penhold	753	Sept. 3, 1908
Parmelee, J. M.	Bluff Centre	771	Sept. 14, 1908
Park, Hugh A.	Placington	785	Sept. 18, 1908
Parsons, Harry	Okotoks	2542	April 23, 1913
Philpot, Jos.	Bawlf	807	Sept. 25, 1908
Podgarmy, Mike	Leduc	819	Sept. 28, 1908
Portaer, Wm.	Stavely	838	Oct. 2, 1908
Peak, Jos. H.	Pokahasset	870	Nov. 26, 1908
Payzant, John M.	Edmonton	873	Dec. 23, 1908
Paul, Karl	Strathcona	880	Mar. 4, 1909
Prout, Thos. R.	Medicine Hat	904	Mar. 26, 1909

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Peterson, Martin O.	Hicksburg	937	April 2, 1909
Passmore, Thos. A.	Content	964	April 13, 1909
Pouillot, Emil E.	Taber	1014	April 25, 1909
Pickering, Geo.	Canmore	1030	April 28, 1909
Pierce, Alfred	Lamont	1040	April 29, 1909
Parsons, Henry	Lac Ste. Anne	1041	April 29, 1909
Purmal, Jacob	Medicine Hat	1052	May 1, 1909
Paget, Thos. J.	Claresholm	1128	Sept. 21, 1909
Piper, T. J.	Calgary	1212	Mar. 7, 1910
Powell, John	Lucky Strike	1233	Mar. 15, 1910
Paulsons, Paul	Lethbridge	1236	Mar. 15, 1910
Pattinson, Geo.	Frank	1254	Mar. 21, 1910
Parkin, David	Macleod	1268	Mar. 28, 1910
Piepgas, Valdemar	Raymond	1318	April 7, 1910
Pearson, Richard V.	Okotoks	1330	April 8, 1910
Puntus, Frank	Airdrie	1340	April 11, 1910
Paradis, Felix	Tofield	1349	April 13, 1910
Parker, John W.	Bow Island	1379	April 19, 1910
Perks, Chas.	High River	1410	April 19, 1910
Phillips, Wm.	Calgary	1451	July 15, 1910
Purcell, Frank	Taber	1510	Sept. 21, 1910
Peterson, Emil	Heatherbrae	1538	Sept. 28, 1910
Parker, Ralph A.	Lewisville	1544	Oct. 7, 1910
Potter, John	Royton	1553	Oct. 17, 1910
Pearce, Gilbert E.	Edmonton	1651	Oct. 19, 1910
Parson, Howard E.	Pine Creek	1604	Jan. 20, 1911
Pike, Fred. G.	Edmonton	1668	Mar. 22, 1911
Pederson, S. M.	Warner	1689	Mar. 29, 1911
Prouty, Hiram	Lost Lake	1706	Mar. 31, 1911
Peterson, Soreng	Hand Hills	1745	April 10, 1911
Porter, J. E.	Medicine Hat	1757	April 15, 1911
Parnell, Fred R.	Medicine Hat	1758	April 15, 1911
Phillips, Harvey G.	Cardiff	1772	April 21, 1911
Pratt, Wm. W.	Ponoka	1856	June 17, 1911
Pomarleau, Louis	Burdett	1857	June 20, 1911
Potter, Thomas	Raymond	1866	June 20, 1911
Palmer, Henry A.	Calgary	1902	Aug. 22, 1911
Pradon, Jean M.	Strathcona	1921	Aug. 25, 1911
Peterson, Peter	Warner	1948	Sept. 9, 1911
Parro, Louis	Lacombe	1990	Nov. 11, 1911
Pratt, Fred	Lethbridge	2002	Nov. 17, 1911
Prought, Donald G.	Elm Park	2010	Dec. 12, 1911
Palar, Henry	Warner	2065	Mar. 13, 1912
Perdue, Nelson	Tofield	2103	Mar. 25, 1912
Pittman, John W.	Warner	2151	April 16, 1912
Pease, Fred	Milk River	2152	April 16, 1912
Pratt, Fred	Camrose	2169	April 20, 1912
Porter, Charles B.	Medicine Hat	2183	April 23, 1912
Putnam, Philetus	Claresholm	2248	May 2, 1912
Patton, John P.	Blairmore	2268	May 18, 1912
Parkening, Amil	Tilley	2347	July 18, 1912
Pettley, Daniel R.	Taber	2626	Sept. 18, 1913
Pinckney, Fred	Medicine Hat	2371	Sept. 17, 1912
Pentzer, Henry W.	Calgary	2374	Sept. 19, 1912
Porter, Joshua	Wetaskiwin	2417	Nov. 12, 1912
Pilgrim, Hy. Howard	Edmonton	2431	Dec. 13, 1912
Palmer, Raymond N.	Calgary	2439	Dec. 18, 1912
Paterson, Peter	Edmonton	2767	May 20, 1914
Porter, John, Jr.	Edmonton	2495	Mar. 26, 1913
Peterson, Leroy	Cardston	2503	Mar. 31, 1913

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Purington, Bert S.	Bassano	2512	April 7, 1913
Polkinghorne, Wm.	Calgary	2635	Oct. 13, 1913
Peabody, Harvey M.	Calgary	2535	April 21, 1913
Patterson, James B.	Calgary	2551	April 26, 1913
Pennock, Frank	Edmonton	2555	May 3, 1913
Prout, Arra T.	Neapolis	2563	May 12, 1913
Patrick, David	Edmonton S.	2579	May 20, 1913
Peterson, Elmer	Coleman	2588	June 19, 1913
Palmer, Charles D.	Magrath	2589	June 19, 1913
Pennicuick, Albert E.	Edmonton	2619	Aug. 21, 1913
Parks, Guy J.	Edmonton	2639	Oct. 22, 1913
Parker, Robt. W.	Bickerdike	2665	Dec. 17, 1913
Penn, John S.	Hillcrest	2675	Jan. 12, 1914
Pozzi, Rinaldo	Frank	2705	Mar. 24, 1914
Phillips, William	Bankhead	2720	April 6, 1914
Peterson, Alfred H.	Camrose	2727	April 16, 1914
Padden, Thomas	Medicine Hat	2772	June 17, 1914
Poole, Arthur J.	Edmonton	2787	June 27, 1914
Parken, William H.	Calgary	2801	July 18, 1914
Quigley, Thos.	Cochrane	546	Nov. 22, 1907
Quigley, Jas. S.	Cochrane	874	Dec. 31, 1908
Quinn, Wm. B.	Edmonton	1188	Dec. 27, 1909
Quick, Elbert K.	Sundial	1237	Mar. 15, 1910
Quesseth, Geo. O.	Meeting Creek	1435	July 6, 1910
Quinlan, John A.	Hillcrest	2082	Mar. 18, 1912
Quick, Nels	Whitla	2188	April 23, 1912
Quissy, Fred J.	Edmonton	2766	May 19, 1914
Robinson, Jno.	Edmonton	*26	Oct. 9, 1899
Rutherford, John	Medicine Hat	1549	Oct. 17, 1910
Ross, Thos. G.	Poplar Lake	*97	Nov. 15, 1900
Ratray, Archie B.	Edmonton	*108	Dec. 15, 1900
Rafie, Andrew	Bon Accord	*301	Oct. 2, 1902
Ryan, James	Wetaskiwin	*316	Oct. 22, 1902
Redig, Valentine	Lacombe	*514	April 18, 1904
Rivet, Arthur	Morinville	*549	May 26, 1904
Ramsay, James	Coleman	620	Oct. 27, 1905
Rice, Geo. A.	Strathcona	39	Sept. 18, 1905
Rath, Edw. L.	Conjuring Creek	93	April 11, 1906
Read, Edgar A.	Manfred	102	April 20, 1906
Reese, Harry E.	Wetaskiwin	137	May 10, 1906
Roulston, Robt.	Bowden	160	May 31, 1906
Robearge, Wm.	Vegreville	215	Sept. 13, 1906
Rorem, T. A.	Duhamel	1760	April 18, 1911
Rockstad, Abraham	Wetaskiwin	247	Oct. 5, 1906
Rath, Ernest W.	Conjuring Creek	277	May 15, 1907
Royle, Wm. H.	Calgary	347	June 4, 1907
Ramey, Morgan	Vegreville	382	June 14, 1907
Reay, John G.	Lamerton	391	June 14, 1907
Robinson, N. J.	DeWinton	425	June 19, 1907
Rydberg, Emil W.	Glenview	432	June 19, 1907
Richards, Wm.	Lundbreck	920	Mar. 30, 1909
Rice, Wm.	Andrew	500	Oct. 15, 1907
Rear, Chas. W.	Mayton	645	April 14, 1908
Raymer, Oliver	Didsbury	653	April 15, 1908
Russell, Chas. O.	Brockville	695	May 6, 1908
Ramsey, Ralph H.	Vegreville	722	May 18, 1908
Rix, Percy H.	Wetaskiwin	728	May 26, 1908
Ratray, Alex	Dog Pound	764	Sept. 11, 1908

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Rude, John N.	Priddis	804	Sept. 22, 1908
Reid, Jas. Robt.	Claresholm	839	Oct. 2, 1908
Rigby, Wm. T.	Claresholm	840	Oct. 2, 1908
Rills, Wilson H.	Claresholm	841	Oct. 2, 1908
Richards, Neal S.	Aetna	857	Oct. 6, 1908
Rattray, Thos. A., Jr.	Edmonton	*550	May 26, 1904
Ritchie, John	Calgary	884	Mar. 19, 1909
Rothwell, John T.	Lethbridge	896	Mar. 24, 1909
Robinson, Wm.	Edmonton	940	April 3, 1909
Russell, John	Gaetz Valley	947	April 6, 1909
Rice, Augustus M.	Carmangay	972	April 16, 1909
Riches, Chas. B.	Edmonton	984	April 20, 1909
Redshaw, Arthur R.	Lethbridge	1055	May 3, 1909
Robinson, H. M.	Lethbridge	1059	May 4, 1909
Rundgren, John S.	Edmonton	1076	May 26, 1909
Robertson, Frank E.	Gleichen	1130	Sept. 21, 1909
Roy, Jos. R.	Stony Plain	1147	Sept. 25, 1909
Reimer, Henry H.	Neapolis	1200	Mar. 4, 1910
Romeil, Geo. H.	Stirling	1238	Mar. 15, 1908
Reilly, Thos.	Coal City	1239	Mar. 15, 1910
Richards, Peter W.	Lethbridge	1240	Mar. 15, 1910
Rice, Aaron R.	Claresholm	1279	Mar. 29, 1910
Ross, John P.	Granum	1282	Mar. 30, 1910
Reed, David	Rimbey	1294	April 1, 1910
Robertson, Geo. H.	Hamilton	1397	April 25, 1910
Ritchie, Wm. O.	Strathcona	1444	July 14, 1910
Roberts, Edward Ivor	Strathcona	1445	July 14, 1910
Rhimes, Robt.	Calgary	1458	Aug. 8, 1910
Roth, Chas.	Strome	1461	Aug. 15, 1910
Robertson, Mark W.	Kitscoty	1462	Aug. 24, 1910
Robertson, Jas. M.	Calgary	1527	Sept. 23, 1910
Reid, John E.	Eagle Butte	1535	Sept. 24, 1910
Robertson, Alex.	Calgary	1600	Jan. 13, 1911
Reed, Edwin L.	Passburg	1603	Jan. 14, 1911
Remington, Otto C.	Milk River	1690	Mar. 29, 1911
Restfall, Fred	Bassano	1746	April 10, 1911
Rolfson, Sam. G.	Comrey	1789	April 24, 1911
Rorney, Andrew	Noble	1790	April 24, 1911
Rauds, Harry	Macleod	1791	April 24, 1911
Radway, Orlando S.	Radway Centre	1816	May 18, 1911
Rawson, George	Suffield	1836	May 26, 1911
Rolfe, Lyman	Bow Island	1867	June 20, 1911
Raw, Frank	Calgary	1883	July 19, 1911
Rusk, Andrew P.	New Dayton	1916	Aug. 24, 1911
Richfield, Floyd I.	Macleod	1917	Aug. 24, 1911
Rice, Martin	Grassy Lake	1949	Sept. 9, 1911
Radloff, Adolff	Edmonton	1965	Oct. 18, 1911
Richards, Thomas	Calgary	2042	Feb. 14, 1912
Ramsay, Wm. John	Lethbridge	2066	Mar. 13, 1912
Roland, Geo.	Lille	2083	Mar. 18, 1912
Rich, George	Granum	2094	Mar. 22, 1912
Robertson, Mark W.	Cardiff	2105	Mar. 25, 1912
Ramsay, Robert	Strathcona	2116	April 1, 1912
Rasmussen, Arnold	Standard	2134	April 4, 1912
Reynolds, Geo. P.	Ferintosh	2170	April 20, 1912
Roman, Ned	Thelma	2184	April 23, 1912
Reed, Guy	Irma	2200	April 24, 1912
Ross, Wm. Hope	Calgary	2211	April 26, 1912
Roberts, John	Calgary	2212	April 26, 1912
Rowell, James	Calgary	2213	April 26, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Rizzuto, Thomas	Edmonton	2221	April 29, 1912
Reedholm, Victor	Edmonton	2237	April 30, 1912
Ross, Robert McKay	Innisfail	2260	May 3, 1912
Robinson, Miles H.	Calgary	2281	May 22, 1912
Rutherford, Chas. E.	Bickerdike	2788	June 22, 1914
Roberts, David O.	Strathcona	2292	May 29, 1912
Rhodes, Edgar	Calgary	2302	June 11, 1912
Rich, Lewis B.	Brochet	2307	June 14, 1912
Ritchie, John R.	Athabasca Landing ..	2323	June 28, 1912
Robinson, Elwin D.	St. Albert	2379	Sept. 20, 1912
Rimmer, George	Calgary	2440	Dec. 18, 1912
Rhoads, George	Calgary	2479	Mar. 14, 1913
Rogers, James Ed.	Macleod	2489	Mar. 19, 1913
Rintoul, Alex	Taber	2506	April 3, 1913
Robillard, Archie	Bassano	2536	April 21, 1913
Rogers, Clifford R.	Edmonton	2557	May 3, 1913
Richardson, Tom	Edmonton	2580	May 20, 1913
Ride, George Ed.	Cardston	2590	June 19, 1913
Riddell, William E.	Edmonton	2599	June 21, 1913
Rhodes, Fred N.	Pincher Creek	2634	Oct. 9, 1913
Richards, Alfred	Laggan	2668	Dec. 17, 1913
Robertson, Jas. W.	Calgary	*862	June 15, 1905
Ross, Robt. McK.	Innisfail	2701	Mar. 12, 1914
Robertson, Donald	Medicine Hat	2737	April 23, 1914
Stadelbauer, Simon	Spruce Grove	*4	Sept. 18, 1899
Stewart, Thos. H.	Strathcona	*30	Oct. 9, 1899
Smith, Wm. F.	Athabasca Landing ..	*38	Nov. 28, 1899
Shaw, Jno. Y.	Midnapore	*40	Dec. 1, 1899
Saunders, Elias T.	Lethbridge	*47	Mar. 23, 1900
Snider, Jno. B.	Okotoks	*68	July 19, 1900
Steffes, Fred	Morinville	*90	Nov. 15, 1900
Schlegel, Frank	Duhamel	*118	Jan. 26, 1901
Stewart, Archie	Edmonton	*161	Sept. 7, 1901
Stulz, Frank	St. Albert	*196	Dec. 18, 1901
Steffes, Jos.	Morinville	*91	Nov. 15, 1900
Simpson, Robt. N.	Edmonton	*198	Dec. 18, 1901
Smith, Sam W.	Vegerville	*228	April 23, 1902
Still, Wm.	Leduc	*328	Dec. 18, 1902
Stewart, Jas. A.	Beaver Lake	*329	Dec. 18, 1902
Shields, Wm. K.	Strathcona	*363	May 13, 1903
Smith, Larent E.	Ponoka	*387	July 13, 1904
Schatz, Robt.	Strathcona	*635	Oct. 15, 1904
Swift, W. L.	Edmonton	*647	Oct. 15, 1904
Sloan, Wm. J.	Calgary	145	May 1906
Swingle, Walter A.	Didsbury	*751	Mar. 24, 1905
Scott, Geo. W.	Innisfail	*758	Mar. 24, 1905
Spannel, John	Leduc	*796	Mar. 27, 1905
Scott, Sam R.	Olds	*797	Mar. 28, 1905
Stafford, Jno.	Sollman	*817	April 14, 1905
Short, Walker	Mewassin	*826	May 13, 1905
Schulli, Angelo	Lille	1453	Aug. 25, 1910
Skouson, Z. N.	Raymond	21	Sept. 16, 1905
Skouson, Peter N.	Raymond	25	Sept. 16, 1905
Sherwood, L. H.	Beaumont	29	Sept. 16, 1905
Swedfeger, Amos	Leduc	41	Sept. 18, 1905
Svarich, Peter	Kolomea	76	Mar. 26, 1906
Suru, John	Edmonton	78	Mar. 26, 1906
Schroeder, Ed. H.	High River	120	April 30, 1906
Sherlin, Adam	Red Deer	128	Mar. 4, 1906

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Smith, Chas. W.	Foreman	131	May 10, 1906
Stephenson, Jas. McC.	Innisfail	155	May 31, 1906
Speakman, Alfred	Penhold	159	May 31, 1906
Sanders, T. Aron	Cardston	166	Aug. 11, 1906
Stephens, Jas.	Frank	2795	July 16, 1914
Stannk, Isadore	Frank	176	Aug. 13, 1906
Stillman, Geo. F.	Spring Point	181	Aug. 13, 1906
Stuckney, Richard	Pincher Creek	185	Aug. 13, 1906
Scribner, Jos.	Leavings	190	Aug. 13, 1906
Smith, Jos. H.	Nanton	195	Aug. 13, 1906
Stevens, H. E.	Macleod	202	Aug. 13, 1906
Somerset, Robt. N.	Vermillion	210	Sept. 13, 1906
Smith, Jno.	Pakan	211	Sept. 13, 1906
Stevens, Harry L.	Olds	240	Sept. 27, 1906
Small, Jesse J.	Didsbury	243	Sept. 26, 1906
Scarth, Walter	Calgary	254	Dec. 1, 1906
Santroek, J. M.	Edmonton	269	April 29, 1907
Sorenson, Nels G.	Kellman	283	May 15, 1907
Smith, Chas. A.	Red Deer	285	May 15, 1907
Smith, Sam T.	Leslieville	287	May 20, 1907
Schmidt, Henry W.	Red Deer	288	May 20, 1907
Salzl, Rudolph	Morinville	307	May 23, 1907
Swingle, Gala R.	Didsbury	310	May 29, 1907
Scott, Wm.	Three Hills	321	May 29, 1907
Stagg, Jno. C.	Calgary	805	Sept. 22, 1908
Stearns, Chas. A.	Carstairs	356	June 4, 1907
Siddall, Wm. M.	Neapolis	360	June 4, 1907
Saunders, Abraham	Lacombe	372	June 7, 1907
Stevens, Clostin H.	Ersikine	378	June 7, 1907
Swan, Jno.	Wessington	379	June 7, 1907
Scoville, Wm. A.	Earling	413	June 14, 1907
Schattschneider, Herman ..	Ellerslie	415	June 14, 1907
Sinclair, Donald	Cayley	422	June 19, 1907
Sallendach, Robt.	Brant	427	June 19, 1907
Sparrow, Jas. W.	Lethbridge	440	June 20, 1907
Stuenkel, Jas. F.	Claresholm	452	July 15, 1907
Svean, Ole	Claresholm	483	Aug. 13, 1907
Salmon, Jno. F.	Raymond	458	July 15, 1907
Spencer, Jno. H.	Medicine Hat	480	July 24, 1907
Somerset, Thos. B.	Edmonton	494	Oct. 15, 1907
Santroek, Harvey S.	Edmonton	498	Oct. 15, 1907
Skolitzky, Jno. J.	Calgary	520	Oct. 24, 1907
Spreeman, Allen	Didsbury	522	Oct. 24, 1907
Skirkey, Jno. W.	Lacombe	534	Oct. 28, 1907
Simmonds, Henry	Banff	547	Nov. 26, 1907
Stanworth, Stephen	Bankhead	549	Dec. 5, 1907
St. George, Stephen	Macleod	604	April 8, 1908
Schroeder, Waldemer	Macleod	607	April 8, 1908
Simpson, David A.	Macleod	622	April 9, 1908
Sorenson, Willard	Leavitt	629	April 9, 1908
Speight, Frank	Red Dear	637	April 14, 1908
Sawatzky, Bernard P.	Didsbury	650	April 15, 1908
Slater, Alfred	Medicine Hat	661	April 27, 1908
Saunders, Wallace	Conjuring Creek	674	April 27, 1908
Stearns, Harvey N.	Innisfree	679	April 27, 1908
Scoonover, Frank	Content	688	May 1, 1908
Story, Hillard M.	Talbot	692	May 6, 1908
Stinson, Fred	Hasting Coulee	706	May 18, 1908
Svarich, And	Vegreville	723	May 18, 1908
Snyder, Jacob F.	Magrath	749	Aug. 26, 1908

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Sanborn, Francis A.	Innisfail	758	Sept. 8, 1908
Stephen, J. G.	Edmonton	780	Sept. 18, 1908
Shandro, Andrew S.	Shandro	822	Sept. 28, 1908
Stafford, Geo. F.	Pincher Creek	858	Oct. 6, 1908
Steinhauer, Augustine	Saddle Lake	866	Oct. 27, 1908
Smith, Anthony A.	Knee Hill	889	Mar. 20, 1909
Steeves, Lorne W.	Lethbridge	894	Mar. 24, 1909
Schwartz, Chas.	Lille	921	Mar. 30, 1909
Suitor, Wm.	Gladys	938	April 2, 1909
Stroud, W. D.	Crossfield	948	April 6, 1909
States, John G.	Carstairs	949	April 6, 1909
Smedstad, John	Claresholm	573	April 16, 1909
Schumers, Louis	Willing	992	April 20, 1909
Stern, Fred	Bawlf	1002	April 22, 1909
Stenberg, Fred.	Harland	1003	April 22, 1909
Snyder, Chas. G.	Calgary	1028	April 28, 1909
Scott, Geo. T.	Gleichen	1029	April 28, 1909
Scarr, Jos. A.	Bankhead	1342	April 11, 1910
Sampert, Julius	Bruderheim	1042	April 29, 1909
Scott, Fred	Strathcona	2611	July 22, 1913
Schaumleffel, John	Lloydminster	1069	May 21, 1909
Stein, Philip	Lethbridge	1073	May 26, 1909
Stubbs, Albert W.	Medicine Hat	1082	June 18, 1909
Scarfe, Wm. H. T.	Innisfail	1090	Aug. 24, 1909
Sheppard, Frank H.	Wetaskiwin	1096	Sept. 7, 1909
Samis, Chas.	Calgary	1132	Sept. 21, 1909
Schench, Wm. A.	Thigh Hill	1133	Sept. 21, 1909
Simon, Herbert	Nanton	1134	Sept. 21, 1909
Sommersgill, Robt.	Calgary	1135	Sept. 21, 1909
Spencer, Fred.	Cardston	1141	Sept. 24, 1909
Smith, John	Kitscoty	1148	Sept. 25, 1909
St. John, Myron	Edmonton	1166	Sept. 29, 1909
Sinclair, Clarence	Coaldale	1242	Mar. 15, 1910
Smith, Leslie E.	Lethbridge	1243	Mar. 15, 1910
Schinnour, Gustav	Grassy Lake	1244	Mar. 15, 1910
Stuckney, Wilfred F.	Pincher Creek	1262	Mar. 21, 1910
Sheffield, Geo.	Macleod	1269	Mar. 28, 1910
Story, Nelson	Lacombe	1295	April 1, 1910
Snyder, Perry	Pakan	1311	April 6, 1910
Symon, Lindsay	Edmonton	1811	May 16, 1911
Saville, Walter G.	Calgary	1341	April 11, 1910
Steven, Robt. T.	Strathcona	1350	April 13, 1910
Sparks, Geo. A.	Edmonton	1351	April 13, 1910
Smith, Oscar H.	Lethbridge	1364	April 14, 1910
Stone, Wm. N.	Langdon	1380	April 21, 1910
Spencer, Geo.	Calgary	1402	April 28, 1910
Sagomen, Peter E.	Chauvin	1406	May 17, 1910
Silver, John A.	Lethbridge	1413	May 21, 1910
Stallworthy, Wm.	Calgary	1430	June 14, 1910
Savage, Wm. John	Cardston	1438	July 8, 1910
Smith, Henry	Calgary	1456	Aug. 4, 1910
Selwood, Wm. H.	Welsdale	1463	Aug. 24, 1910
Scott, Michael D.	Cayley	1489	Sept. 6, 1910
Sand, Oscar L.	Dina	1505	Sept. 21, 1910
Stewart, Wm. A.	Gilpin	1506	Sept. 21, 1910
Spencer, Thomas E.	Wetaskiwin	1545	Oct. 7, 1910
Shantz, Alson S.	Didsbury	1554	Oct. 17, 1910
Stobbs, Henry	Medicine Hat	1571	Oct. 20, 1910
Smith, John K.	Calgary	1576	Oct. 20, 1910
Smeltzer, Geo. E.	Taber	2160	April 19, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Steeves, Robert	Clevertown	1540	Oct. 3, 1910
Steeves, Robert	Clevertown	1841	May 26, 1911
Snyder, Amasa	Edmonton	1607	Jan. 23, 1911
St. Peter, Moses	MacLeod	1639	Mar. 15, 1911
Snyder, Clarence E.	Pincher Creek	1640	Mar. 15, 1911
Stilling, Samuel K.	Three Hills	1658	Mar. 20, 1911
Stilling, Samuel K.	Three Hills	2682	June 13, 1914
Sergeant, Ed. D.	Calgary	1659	Mar. 20, 1911
Saunders, Chas. O.	Okotoks	1660	Mar. 20, 1911
Stanley, Sans. E.	Calgary	1661	Mar. 20, 1911
Stone, William	Calgary	2699	Feb. 19, 1914
Sheardown, Henry	Lorraine	1676	Mar. 24, 1911
Solie, Halbert L.	Warner	1691	Mar. 29, 1911
Sweet, Charles	Grassy Lake	1707	Mar. 31, 1911
Smyrick, Jos.	Grassy Lake	1708	Mar. 31, 1911
Stephens, S. E.	Ponoka	2501	Mar. 28, 1913
Skallin, Olof	Pretty Hill	1724	April 5, 1911
Shernak, Chas. J.	Camrose	1725	April 5, 1911
Scott, John S.	Bashaw	1726	April 5, 1911
Scott, John S.	Bashaw	2853	Dec. 15, 1914
Seward, Gale	Strome	1727	April 5, 1911
Shields, David W.	Carlstadt	1747	April 10, 1911
Schroeder, Alex	Beaver Hills	1773	April 21, 1911
Smith, Thomas M.	Edmonton	1774	April 21, 1911
Smith, J. Edgar	Noble	1794	April 24, 1911
Schrieber, John	Taber	1793	April 24, 1911
Stephens, Samuel	Carmangay	1799	April 26, 1911
Stewart, Joseph	Irricana	1808	May 6, 1911
Soetje, Henry	Chinook	1824	May 20, 1911
Smith, Albert A.	Magrath	1839	May 26, 1911
Spangrud, Emil	Pincher Creek	1840	May 26, 1911
Stackhouse, Wm. C.	Edmonton	1869	June 26, 1911
Sebern, Horance E.	Edmonton	1872	July 12, 1911
Smeaton, Andrew	Calgary	1903	Aug. 22, 1911
Sorenson, Charles	Lethbridge	1918	Aug. 24, 1911
St. Peter, J. F.	Diamond City	2361	Aug. 14, 1912
Stevens, George N.	Calgary	1939	Sept. 8, 1911
Skelton, Fred A.	Wheat Centre	1950	Sept. 9, 1911
Slevinski, Alex	Mundare	1956	Sept. 9, 1911
Spallin, Joseph	Fort Saskatchewan ..	1957	Sept. 9, 1911
Selwood, Wm. H.	Clover Bar	1966	Oct. 18, 1911
Shields, Jas. R.	Edmonton	1987	Nov. 10, 1911
Smith, Samuel George	Huxley	2003	Nov. 25, 1911
Smith, John	Edmonton	2022	Dec. 31, 1911
Sommers, Delbert	Lawrence	1241	Mar. 15, 1910
Sommers, Delbert	Lawrence	2153	April 16, 1912
Shidler, Elmer H.	Cardston	1319	April 7, 1910
Shidler, Elmer H.	Cardston	2033	Feb. 14, 1912
Schrieber, Wm.	Eyremore	1709	Mar. 31, 1911
Schrieber, Wm.	Eyremore	2159	April 19, 1912
Stoner, Orville W.	Strathcona	1922	Aug. 25, 1912
Stoner, Orville W.	Strathcona	2106	Mar. 25, 1912
Scott, Wilbert W.	Summerview	2084	Mar. 18, 1912
Scott, Frank	Gleichen	2132	April 4, 1912
Sears, Thomas	Dalroy	2133	April 4, 1912
Spoucler, W. J.	Reid Hill	2154	April 16, 1912
Sand, Elmer M.	Edburg	2171	April 20, 1912
Strong, Ross D.	Burdett	2185	April 23, 1912
Scully, Daniel	Seven Persons	2186	April 23, 1912
Sillib, Walter	Whitlaw	2187	April 23, 1912

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Sinclair, E. R.	Medicine Hat	2189	April 23, 1912
Stuart, James E.	Edmonton	2227	April 29, 1912
Stuart, James E.	Edmonton	2390	Sept. 27, 1912
Smart, Charles C.	Crossfield	2240	May 1, 1912
Strang, Andrew R.	Carbon	2241	May 1, 1912
Stuart, Wm. G.	Coaldale	2245	May 2, 1912
Stewart, Andrew	Calgary	2282	May 22, 1912
Skark, Jans.	Calgary	2283	May 22, 1912
Smith, Jno. Wesley	Calgary	2303	June 11, 1912
Sherwood, Ralph O.	St. Albert	2319	June 17, 1912
Shafer, Melvan J.	Edmonton	2335	July 16, 1912
Spencer, James	Calgary	2373	Sept. 19, 1912
Silver, William	St. Albert	2380	Sept. 20, 1912
Stingle, Albert W.	Edmonton	2558	May 3, 1913
Stone, William	Edmonton	2395	Oct. 7, 1912
Scanlin, Edward	Bassano	2403	Oct. 19, 1912
Smiley, Levy	Calgary	1852	June 13, 1911
Smiley, Levy	Calgary	2537	April 21, 1913
Stevenson, Ivy W.	Calgary	2538	April 21, 1913
Schultz, John	Lethbridge	2455	Jan. 15, 1913
Sanders, Thos. O.	Bassano	2468	Feb. 13, 1913
Schultz, Emil	Bruderheim	2496	Mar. 26, 1913
Scobie, John H.	Lethbridge	2545	April 23, 1913
Singleton, Thomas F.	Edmonton	2556	May 3, 1913
Stepina, Joseph	Edmonton	2564	May 14, 1913
Steele, Charles Wm.	Calgary	2574	May 19, 1913
Stephens, John	Calgary	2585	June 18, 1913
Sterne, Alf	Calgary	2586	June 18, 1913
Small, Lorne	Maleb	2591	June 19, 1913
Stevens, Fred. V.	Edmonton	2600	June 18, 1913
Sweet, William A.	Calgary	2631	Sept. 20, 1913
Stewart, Albert A.	Flowerdale	2636	Oct. 13, 1913
Scott, William R.	Edmonton	2646	Nov. 11, 1913
Steele, Thomas	Coalhurst	2659	Dec. 16, 1913
Shea, Pat J.	Edmonton	2666	Dec. 17, 1913
Strand, Frank E.	Edmonton	2690	Feb. 16, 1914
Stockett, Thomas R.	Hosmer	2698	Feb. 19, 1914
Sargent, George	Calgary	2734	April 21, 1914
Stuckey, Samuel	Edmonton	2789	June 22, 1914
Stinis, Dirk P.	Spirit River	2803	Aug. 5, 1914
Stafford, Chas. G.	Lethbridge	2831	Oct. 17, 1914
Sawezuk, Gregor	Mundare	2667	Dec. 17, 1913
Tribble, H. W.	Red Deer	2820	Aug. 29, 1914
Townsend, R. C.	Canmore	*314	Oct. 20, 1902
Turner, Leonard J.	Gleichen	469	Nov. 6, 1903
Terry, Peter	Okotoks	*470	Nov. 6, 1903
Turnbull, Robt.	Strathcona	*519	April 8, 1904
Trussler, A. E.	Highland Park	*612	Sept. 27, 1904
Tennison, Jno. C.	Leduc	*722	Mar. 3, 1905
Tribel, Clarence A.	Red Deer	*782	Mar. 24, 1905
Tillapaugh, John	Warwick	48	Sept. 23, 1905
Tanner, Wm. Jos.	Raymond	15	Sept. 16, 1905
Thomas, A. I.	Frank	890	Mar. 24, 1909
Treasure, Sam	Claresholm	58	Dec. 19, 1905
Trembly, Miles I.	Edmonton	73	Mar. 26, 1906
Taylor, David A.	Red Deer	162	July 7, 1906
Tufts, Josiah	Taber	187	Aug. 13, 1906
Turner, Ernest H.	Warwick	214	Sept. 3, 1906
Towers, Fred. J.	Red Deer	299	May 20, 1907

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Traub, Wm.	Didsbury	325	May 29, 1907
Telford, Ernest E.	Vermilion	330	May 31, 1907
Tennant, Wm. J.	Calgary	350	June 4, 1907
Thompson, Geo. A.	Red Willow	374	June 7, 1907
Tiede, August	Stettler	375	June 7, 1907
Trussler, A. D.	Strathcona	416	June 14, 1907
Thrum, Chas. W.	High River	433	June 19, 1907
Turner, George H.	Taber	445	July 15, 1907
Tucker, Glines	Stavelly	1843	May 29, 1911
Tollestrup, Christian F.	Raymond	472	July 15, 1907
Thwaytes, Lancelot	Edmonton	497	Oct. 15, 1907
Tewsley, Jas. S.	Carstairs	525	Oct. 24, 1907
Thompson, Thos. G.	Edmonton	589	April 2, 1908
Turnbull, W. N.	Penhold	634	April 14, 1908
Taylor, Orrin O.	Harmattan	647	April 14, 1908
Tidball, Wm. E.	Carstairs	651	April 15, 1908
Taylor, Wm. L.	Killam	2612	Aug. 2, 1913
Thronsdon, Theo.	Camrose	714	May 18, 1908
Teardiff, Jos. E.	Fort Vermilion	743	Aug. 6, 1908
Toews, Cornelius F.	Stern	765	Sept. 11, 1908
Tronnes, Peter	Doreenlee	808	Sept. 2, 1908
Todd, Walker	Macleod	1270	Mar. 28, 1910
Taylor, Wm. J.	Lochinvar	976	April 17, 1909
Trono, Louis	Canmore	1032	April 28, 1909
Trono, Emile	Canmore	1033	April 28, 1909
Townsend, Leon E.	Stirling	1085	July 16, 1909
Thomas, Wm. H.	Lloydminster	1167	Sept. 29, 1909
Tillapaugh, John F.	Vegreville	1169	Sept. 29, 1909
Tanner, James	Macleod	1272	Mar. 28, 1910
Taylor, Henry G.	Ponoka	1296	April 1, 1910
Toward, James B.	Bankhead	2575	May 19, 1913
Thomas, Emery R.	Carlstadt	1398	April 25, 1910
Tessier, Geo. A.	Ena	1431	June 14, 1910
Toppin, Samuel S.	Calgary	1459	Aug. 15, 1910
Tupper, Roy O.	Kipp	1483	Sept. 1, 1910
Turner, Philip R.	Fort Saskatchewan ..	1518	Sept. 21, 1910
Thomas, Wm.	Bassano	2004	Nov. 24, 1912
Todd, Robt.	Strathcona	2117	April 1, 1912
Tharp, Chancey L.	Taber	1572	Oct. 20, 1910
Tomfohr, Geo.	Milk River	1587	Nov. 17, 1910
Thompson, Henry	Castor	1677	Mar. 24, 1911
Tennis, Lloyd	Homeglen	1678	Mar. 24, 1911
Taylor, John W.	Lethbridge	1692	Mar. 29, 1911
Thoreson, Thos. L.	Holden	1700	Mar. 31, 1911
Tingley, Alex. B.	Blackfoot	1701	Mar. 31, 1911
Turnell, Reese W.	Three Hills	1728	April 5, 1911
Towler, John W.	Sedgewick	1729	April 5, 1911
Taylor, Frank S.	Carlstadt	1748	April 10, 1911
Thillet, Claud	Calgary	1823	May 20, 1911
Thompson, And. J.	Lethbridge	2780	June 20, 1914
Thielen, Joseph	Milk River	1838	May 26, 1911
Toews, Peter L.	Stern	1904	Aug. 22, 1911
Tollestrup, Rudolph W.	Raymond	2420	Nov. 13, 1912
Trail, Herbert	Calgary	1996	Nov. 16, 1911
Thompson, Gordon B.	Strathcona	2011	Dec. 11, 1911
Thompson, Chas.	Red Deer	297	May 20, 1907
Thompson, Chas.	Red Deer	2337	July 17, 1912
Thompson, James	Innisfail	2034	Feb. 14, 1912
Thompson, Frank L.	Macleod	1271	Mar. 28, 1910
Thompson, Frank L.	Macleod	2085	Mar. 18, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Thompson, Robson	Calgary	2027	Jan. 16, 1912
Thompson, Robson	Calgary	2818	Aug. 22, 1914
Telghton, Roy F.	Wetaskiwin	2050	Feb. 23, 1912
Topper, George	Nanton	2113	Mar. 28, 1912
Taylor, Roy	Dolcy	2146	April 10, 1912
Tubbs, Allie	Taber	2161	April 19, 1912
Thomas, Alfred Ernest	Edmonton	2812	Aug. 17, 1914
Taylor, Stead	Strathcona	2321	June 17, 1912
Thorp, Fred. Wm.	Calgary	2415	Nov. 12, 1912
Todd, Fred. C.	Edmonton S.	2497	Mar. 26, 1913
Towle, Ray M.	Red Cliff	2523	April 15, 1913
Tully, James A.	Calgary	2539	April 21, 1913
Tilly, James A.	Calgary	2540	April 21, 1913
Thomson, John F.	Bellevue	2543	April 23, 1913
Thomson, Alex.	Edmonton	2581	May 20, 1913
Tuuly, Fred. A.	Medicine Hat	2592	June 19, 1913
Thoman, George A.	Camrose	2728	April 16, 1914
Turner, William T.	Mountain Park	2741	April 27, 1914
Utter, Frank C.	Whitecourt	2051	Feb. 29, 1912
Utas, Peter	Wetaskiwin	*331	Feb. 13, 1903
Umbach, William	Spruce Grove	*357	May 13, 1903
Umbach, Jno. H.	Spruce Grove	67	Mar. 16, 1906
Urback, Alfred F.	Calgary	258	Jan. 22, 1907
Umbach, Edgar A.	Spruce Grove	656	April 22, 1908
Underwood, Harry A.	Emsbury	689	May 1, 1908
Ullman, Albert	Granum	842	Oct. 2, 1908
Ursin, Bjorne	Kananaskis	2615	Aug. 11, 1913
Unger, Joseph	Edmonton	2691	Feb. 16, 1914
Vogel, Wilhelm	Strathcona	*22	Oct. 2, 1899
VanMeter, Chas. E.	Millet	*212	Dec. 18, 1901
Vanacker, Louis	St. Albert	*373	May 13, 1903
Vig, Oscar O.	Bentley	763	Mar. 24, 1905
Veeder, Robt. B.	Wetaskiwin	*791	Mar. 27, 1905
VanSellick, Jacob	Edmonton	32	Sept. 16, 1905
Van Wegan, Louis	Raymond	42	Sept. 18, 1905
Vogel, Ferdinand	Strathcona	2293	May 29, 1912
Vig, Casper O.	Bentley	110	April 25, 1906
Vaughan, Frank	Calgary	336	June 14, 1907
VanWinkle, Howard	High River	2855	Dec. 17, 1914
VanWinkle, Chester A.	High River	439	June 19, 1907
Venables, Wm.	Medicine Hat	482	Aug. 1, 1907
Veith, F. Wm.	Inga	490	Oct. 15, 1907
Vesseur, Moses	Sylvan Lake	1194	Feb. 21, 1910
Vlasak, Rudolph	Wessington	539	Oct. 28, 1907
Vandburgh, Jas. N.	Calgary	587	Mar. 23, 1907
Vanyle, Chas.	Edmonton	597	April 2, 1908
Vanderford, Sylvester A.	Stettler	1297	April 1, 1910
Vint, Francis	Stettler	1298	April 1, 1910
Varemba, Olaf H.	Camrose	1546	Oct. 7, 1910
VanMeter, Jacob A.	Millet	823	Sept. 29, 1908
Valentine, Marcon F.	Bellevue	924	Mar. 30, 1909
Vaughn, Clifford E.	Wetaskiwin	1097	Sept. 7, 1909
VanKluck, Alerie	Reid Hill	1136	Sept. 21, 1909
Von Wald, Ernest C.	Stavely	1952	Sept. 9, 1911
Vincent, Robert W.	Coleman	2486	Mar. 14, 1913
Varty, Herbert H.	La Pearl	2147	April 10, 1912
Van Deer Doorn, Ant. E.	Medicine Hat	2190	April 23, 1912
Van Der Velde, M.	Langdon	2214	April 26, 1912

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SCHEDULE OF HOLDERS of Final Certificates of Qualification under
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NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Vogel, Andrew J.	Edmonton	2449	Jan. 13, 1913
Van Nest, Andrew C.	Medicine Hat	2603	July 10, 1913
Vanderpool, Joseph W.	Calgary	2043	Feb. 14, 1912
Witmer, Abram	Strathcona	*29	Oct. 9, 1899
Wilson, Jas.	Calgary	65	July 19, 1900
Wulff, Nick	Edmonton	1084	July 13, 1909
Walker, Robt.	Edmonton	*251	Aug. 18, 1902
Weder, Frank	Beaver Hills	*462	Oct. 28, 1903
Wells, Chas.	Rosenroll	*517	April 18, 1904
Wardrop, Jno. L.	East Clover Bar	*640	Oct. 15, 1904
Will, Louis	Bankhead	*682	Jan. 3, 1905
Wilkinson, Richard	Olds	*754	Mar. 24, 1905
Whitecotton, Robt. M.	Lacombe	164	July 14, 1906
Wilson, Wm. Jos.	Coleman	9	Sept. 16, 1905
Wallace, W. J.	Macleod	12	Sept. 16, 1905
Wood, Wm. F.	Tofield	44	Sept. 18, 1905
Whalen, Jas.	Edmonton	69	Mar. 1, 1906
Wetterberg, Theo	Canmore	100	April 20, 1906
Watts, Sam	Lacombe	103	April 24, 1906
Werner, Wm. Fred.	Red Deer	108	April 24, 1906
Waymark, Richard T.	Calgary	123	April 30, 1906
Whitaker, Wm.	Edmonton	129	May 4, 1906
Walker, Robt. T.	Strathcona	134	May 10, 1906
Wisler, Oliver P.	Stettler	136	May 10, 1906
Webber, Alfred	Medicine Hat	2191	April 23, 1912
Wright, Bruce M.	Calgary	205	July 30, 1906
Watters, Wm. E.	Strathcona	227	Sept. 20, 1906
Wynn, Robt.	Kneehill Valley	291	May 20, 1907
Wood, Rex. R.	Carstairs	309	May 29, 1907
Wacker, Grover	Rawdonville	322	May 29, 1907
Webster, Robt. J.	Marwayne	390	June 14, 1907
Walkermeyer, Wm.	Heatherbrae	396	June 14, 1907
Wilcox, Isaac A.	High River	423	June 19, 1907
Wilson, Archibald	Brant	1465	Aug. 29, 1910
Wilderman, Raymond A.	High River	437	June 19, 1907
Walters, Wm.	Claresholm	864	Oct. 24, 1908
Wilcocks, Wm.	Lethbridge	475	July 15, 1908
Watson, Walter J.	Claresholm	578	Mar. 23, 1908
White, Jack	Calgary	585	Mar. 23, 1908
Wright, Merit B.	Edmonton	593	April 2, 1908
White, Geo. T.	Red Deer	639	April 14, 1908
Williams, Frank T.	Crossfield	682	May 1, 1908
Winkleman, Jules	Leduc	711	May 18, 1908
Wilbert, Chas.	Wetaskiwin	721	May 28, 1908
Walker, Preston	Lacombe	772	Sept. 14, 1908
Watson, P.	Edmonton	781	Sept. 18, 1908
Wentworth, Wm.	Okotoks	806	Sept. 22, 1908
Wilson, Bert M.	Nanton	843	Oct. 2, 1908
Wright, Leroy H.	Cardston	859	Oct. 6, 1908
Wilson, Chas. O.	Spring Coulee	803	Oct. 21, 1908
Wallwork, Jas.	Taber	903	Mar. 24, 1909
Webster, Alex.	Pincher Creek	933	April 1, 1909
Weber, Noah R.	Carstairs	950	April 6, 1909
Watts, Geo.	Macleod	957	April 9, 1909
Wilson, Andrew W.	Vegreville	985	April 20, 1909
Walker, Edgar N.	Mundare	986	April 20, 1909
Wilson, Jos. W.	Edmonton	987	April 20, 1909
Wyman, Clark I.	Magrath	1007	April 25, 1909
Walker, Chas. H.	Warner	1008	April 25, 1909
Williams, Edgar H.	Bankhead	1034	April 28, 1909

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Woodcock, Frank F.	Medicine Hat	2827	Sept. 29, 1914
Wiltzen, Martin	Chipman	1043	April 29, 1909
White, Edward	Lethbridge	1056	May 3, 1909
Weisser, Christian B.	Camrose	1094	Sept. 7, 1909
West, Wm. A.	Mewassin	1099	Sept. 13, 1909
White, Thos. J.	Stirling	1108	Sept. 15, 1909
Wick, Anton	Lineham	1137	Sept. 21, 1909
Wilson, Aura L.	Carstairs	1138	Sept. 21, 1909
Wood, Roy J.	Carstairs	1139	Sept. 21, 1909
Wolanskey, John	Edmonton	1149	Sept. 25, 1909
Wonnop, Jos. L.	Lawrence	1156	Sept. 28, 1909
Watt, Geo.	Strathcona	1184	Dec. 4, 1909
White, Chris., Jr.	Red Deer	1201	Mar. 3, 1910
Williams, Albert	Magrath	1245	Mar. 15, 1910
Wilson, Clifford	Camrose	1299	April 1, 1910
Watson, Robt.	Edgerton	1352	April 13, 1910
Wilson, Rufus B.	Tofield	1354	April 13, 1910
Wilson, Rufus B.	Tofield	1333*	April 13, 1910
Woods, Henry	Warner	1365	April 14, 1910
White, Jas. Albert	Lethbridge	1366	April 14, 1910
Wilson, Robt.	Medicine Hat	1399	April 25, 1910
Whitehead, Martin	Banff	1432	June 14, 1910
Woods, Harry	Lethbridge	1439	July 8, 1910
White, John W.	Brooks	1452	July 15, 1910
Walker, John A.	Warren	1490	Sept. 7, 1910
Wagner, A. C. L.	Calgary	1529	Sept. 23, 1910
Wilson, John L.	Bassano	1530	Sept. 23, 1910
Wilson, Wm. John	Angus Ridge	1547	Oct. 7, 1910
Wocknitz, Paul	Magrath	1573	Oct. 20, 1910
Wessenger, Ray	Medicine Hat	1574	Oct. 20, 1910
Wessenger, Ray	Medicine Hat	1749	April 12, 1911
Wolfe, John W.	Edmonton	1588	Nov. 21, 1910
Williams, Chas. A.	Calgary	1595	Dec. 15, 1910
Williams, Alfred L.	Calgary	1596	Dec. 15, 1910
Watson, Wilfred G.	Calgary	1663	Mar. 20, 1911
Wallace, Richard R.	Lloydminster	1669	Mar. 22, 1911
White, Wm. R.	Castor	2089	Mar. 21, 1912
Wight, H. E.	Cardston	1683	Mar. 28, 1911
Wight, H. E.	Cardston	2504	Mar. 31, 1913
Wright, Oscar H.	Warner	1693	Mar. 29, 1911
Wagar, Elmore C.	Bow Island	1710	Mar. 31, 1911
Wagar, George	Bow Island	1711	Mar. 31, 1911
Wilson, Charles B.	Olds	1730	April 5, 1911
Wood, Thomas W. G.	Lethbridge	2608	July 18, 1913
Weeks, George S.	Seven Persons	1795	April 24, 1911
Woods, George	New Dayton	1842	April 26, 1911
Woodrow, Duncan	Edmonton	1847	June 9, 1911
Wilbraham, George	Edmonton	1873	July 12, 1911
Williams, Thomas	Grand Prairie	1884	July 19, 1911
Wilson, Ernest	Langdon	1885	July 19, 1911
Walker, Jas. H.	Gleichen	1905	Aug. 22, 1911
Wonsor, Louis A.	Calgary	1940	Sept. 8, 1911
Wagar, Arnold	Millet	1958	Sept. 9, 1911
Wilson, Oscar L.	High River	1971	Oct. 20, 1911
Welsh, John	Vermilion	2012	Dec. 12, 1911
Williams, Ross D.	Winnifred	2017	Dec. 19, 1911
Wertz, Ran. W.	Lethbridge	2018	Dec. 19, 1911
Whalls, George	Calgary	2020	Dec. 23, 1911
Wharron, Frank T.	Calgary	1213	April 7, 1910
Wharron, Frank T.	Calgary	2162	April 19, 1912
Williams, Wm. D.	Vermilion	1508	Sept. 21, 1910

*Indicates Certificate was granted by North-West Territories.

SCHEDULE OF HOLDERS of Final Certificates of Qualification under
The Boilers Act.—*Continued.*

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Third Class—Continued			
Williams, Wm. D.	Vermilion	2232	April 29, 1912
Wallace, F. M.	Lethbridge	1878	July 13, 1911
Wallace, F. M.	Lethbridge	2067	Mar. 13, 1912
Wilson, Stephen E.	Calgary	2044	Feb. 14, 1912
Wark, Fred. D.	Gladys	2114	Mar. 28, 1912
Whitehouse, Jas. E.	Strathmore	2135	April 4, 1912
Willits, John T.	Clover Bar	2219	April 29, 1912
Weber, Edwin	Didsbury	2261	May 3, 1912
Wesenberg, William	Ghost Pine Creek ...	2262	May 3, 1912
Wheatley, Edward A.	Leslieville	2265	May 15, 1912
Williams, John	Lille	2269	May 18, 1912
Watson, Isaac M.	Lethbridge	2270	May 18, 1912
Winters, Arthur J.	Bassano	2284	May 22, 1912
Wimer, William	Ferintosh	2295	May 29, 1912
Wilcox, Edward	Camrose	2508	April 4, 1913
Wilson, Aaron	Calgary	2304	June 11, 1912
Walker, Alex.	Calgary	2322	June 21, 1912
White, William L.	Edmonton	2336	July 16, 1912
Ward, William	Calgary	2349	July 18, 1912
Walker, John F.	Bassano	2583	May 21, 1913
Wright, Frank G.	Staffordville	2356	July 19, 1912
Ward, Walter George	Lethbridge	2814	Aug. 18, 1914
Wismer, Henry F.	Nanton	2402	Oct. 19, 1912
Wyatt, Sidney	Calgary	2407	Oct. 19, 1912
Wright, Joseph	Calgary	2408	Oct. 19, 1912
Wooley, Norman	Medicine Hat	1400	Dec. 25, 1910
Wooley, Norman	Medicine Hat	2524	April 15, 1913
Whyte, William R.	Calgary	2453	Jan. 15, 1913
Wilson, William	Hardieville	2456	Jan. 15, 1913
Williams, Fred Jas.	Medicine Hat	2457	Jan. 15, 1913
Wells, Edwin N.	Bassano	2481	Mar. 14, 1913
Wallis, Harold W.	Calgary	2541	April 21, 1913
Williams, Thomas	Lethbridge	2569	May 15, 1913
Wilson, Robert B.	Edmonton	2621	Aug. 21, 1913
Wilson, Alex.	Edmonton	2648	Nov. 11, 1913
Whitfield, Arthur	Lethbridge	2660	Dec. 16, 1913
Walker, Earl A.	Calgary	2670	Dec. 17, 1913
Williams, Richard	Edmonton	2769	June 11, 1914
Weir, William J.	Medicine Hat	2773	June 17, 1914
Wieting, Henry	Buford	2794	July 16, 1914
Weatherhead, Orrel S.	Edmonton	2813	Aug. 17, 1914
Young, Arthur	Banff	*491	Mar. 14, 1904
Young, D. M.	Lethbridge	4	Sept. 16, 1905
Yeamans, Chas. A.	Edmonton	2294	May 29, 1912
Young, Jno. T.	Stavelly	465	July 15, 1907
Young, Alvia L.	Markerville	643	April 14, 1908
Young, David	Strathcona	2623	Aug. 25, 1913
Young, Peter	Calgary	959	April 9, 1909
Young, Jas.	Edmonton	1355	April 13, 1910
Young, Jas.	Gleichen	1531	Sept. 23, 1910
Yeomans, George M.	Brockett	1634	Mar. 15, 1911
Yeomans, George M.	Brockett	2628	Sept. 18, 1913
Zimmerman, Arthur C.	Bawlf	1548	Oct. 7, 1910
Zuehlke, F. C.	Urquhart	*188	Dec. 18, 1901
Zimmerman, Otto	Red Lodge	*756	Mar. 24, 1905
Zachowski, John	Edison	1150	Sept. 25, 1909
Zille, Frank	Lille	2629	Sept. 18, 1913
Zorves, Andrew J.	Blairmore	2088	Mar. 18, 1912
Zavity, Bryant	Edmonton	2464	Feb. 12, 1913

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TRACTION ENGINEERS' Final Certificates.

NAME	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Arrison, Norman W.	Gleichen	73	Aug. 16, 1912
Andrews, John	Stewartwayn	1	May 13, 1912
Adler, Lee	Stirling	32	June 14, 1912
Arndt, Paul	Whitla	83	Sept. 17, 1912
Atkinson, Henry	Medicine Hat	84	Sept. 17, 1912
Archambio, Fred	Rosemead	286	June 9, 1913
Alm, Enoch Wm.	Bittern Lake	173	Mar. 28, 1913
Auburg, Bert	Carlstadt	214	April 7, 1913
Arnew, Thos. A.	Sundre	224	April 11, 1913
Armstrong, John	Stavely	250	April 23, 1913
Abet, John H.	Lloydminster	255	April 26, 1913
Affseth, Christian	Holden	305	June 27, 1913
Allen, Wallace	Killam	375	Sept. 25, 1913
Adshead, Cecil H.	Calgary	396	Nov. 8, 1913
Ayers, Thomas C.	Edmonton	432	April 2, 1914
Algot, Gustaf J.	Angle Lake	478	April 17, 1914
Anderson, Conrad G.	Lawton	511	April 29, 1914
Armstrong, Norman B.	Ryley	535	June 22, 1914
Allan, Malcolm M.	Bottrel	567	Sept. 21, 1914
Anderson, Nels	Calmar	595	Oct. 19, 1914
Blanchard, Arthur L.	Olds	56	July 30, 1912
Benning, Alonso	Lethbridge	26	June 5, 1912
Bassett, Chas. C.	Cora Lynn	27	June 10, 1912
Burger, Samuel M.	Bentley	28	June 10, 1912
Bobier, Louis	Coaldale	65	Aug. 14, 1912
Brown, Frank	Spring Coulee	85	Sept. 17, 1912
Buchanan, Robt. Jas.	Welling	86	Sept. 17, 1912
Boyce, Samuel L.	Calgary	107	Sept. 19, 1912
Beebe, Roy A.	Cowley	122	Oct. 17, 1912
Bowman, Harry H.	High River	126	Oct. 19, 1912
Baker, Edwin E.	Glenview	127	Oct. 19, 1912
Blegan, John P.	Crossfield	131	Oct. 19, 1912
Brown, Dewitt E.	Bells Hill	294	June 17, 1913
Boisvert, Alex	Diligence	140	Jan. 13, 1913
Bennett, William H.	Calgary	141	Jan. 15, 1913
Bjornson, Carl A.	Lethbridge	142	Jan. 15, 1913
Bulford, George J.	High River	156	Mar. 14, 1913
Briggs, Ami C.	Stavely	166	Mar. 19, 1913
Bransen, Joseph H.	Spring Lake	174	Mar. 28, 1913
Bowie, George W.	Ferry Point	175	Mar. 28, 1913
Button, Albert M.	Wiste	176	Mar. 28, 1913
Behrens, David	Erskine	177	Mar. 28, 1913
Bonson, Mick	Castor	205	April 4, 1913
Bond, Lester H.	Bassano	215	April 4, 1913
Boschee, Jacob J.	Thelma	227	April 15, 1913
Burt, Leander B.	Suffield	251	April 23, 1913
Berger, Theo. G.	Purple Springs	279	May 15, 1913
Betz, Wilber L.	Curlew	288	June 16, 1913
Brewer, William C.	Stettler	289	June 16, 1913
Bower, George E.	Calgary	297	June 18, 1913
Bricker, Ralph	Strome	307	July 10, 1913
Brown, Lawrence	Jethson	308	July 15, 1913
Barton, Reginald	Edmonton	330	Aug. 21, 1913
Bjornson, Henry A.	Pendant D'Oreille ...	341	Sept. 14, 1913
Brickman, Julius	Wetaskiwin	342	Sept. 16, 1913
Brown, Earl F.	Crossfield	362	Sept. 20, 1913
Brunelle, Oscar	St. Paul de Metis	400	Nov. 11, 1913
Burton, Edgar W.	Calgary	402	Jan. 7, 1914
Brown, Thomas	Frank	428	Mar. 24, 1914
Bass, George W.	Grand Prairie	407	Feb. 16, 1914
Bardell, Jesse	Taber	444	April 15, 1914
Bennett, Ira J.	Nobleford	445	April 15, 1914

TRACTION ENGINEERS' Final Certificates.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Burbridge, Louis P.	Hardisty	454	April 16, 1914
Bachand, Alphonse	Legal	500	April 27, 1914
Bibby, Walter J.	Pine Creek	512	April 29, 1914
Bourbonnie, Vern	Lethbridge	545	Aug. 12, 1914
Barkman, Jowl J.	Acme	555	Aug. 22, 1914
Beck, Albert R.	Innisfail	561	Sept. 15, 1914
Boettger, Milton	Mayton	586	Oct. 10, 1914
Cale, Arthur Wm.	Lethbridge	339	Sept. 9, 1913
Choate, Stewart	Trochu	2	May 13, 1912
Curtis, Albert G.	Cora Lynn	3	May 13, 1912
Cook, Manny A.	Calgary	17	May 22, 1912
Cathcart, James	Edmonton	38	June 17, 1912
Christensen, Jacob	Standard	48	July 18, 1912
Coutts, Alex	Warner	53	July 19, 1912
Church, Herbert Geo.	Winnifred	66	Aug. 14, 1912
Coldsnow, Alvah	Coutts	87	Sept. 17, 1912
Clark, Charles	Calgary	278	June 13, 1913
Caskey, Oran A.	Caskey	115	Sept. 27, 1912
Chaffin, John D.	Arrowood	129	Oct. 19, 1912
Chippenden, Henry L.	Bassano	138	Dec. 18, 1912
Colwell, Samuel W.	Vulcan	157	Mar. 14, 1913
Curtis, Guy H.	Strome	178	Mar. 28, 1913
Cameron, Donald F. B.	Sedgewick	179	Mar. 28, 1913
Cameron, John A.	Sedgewick	180	Mar. 28, 1913
Culler, Ira M.	Warner	199	Mar. 31, 1913
Curtis, Alfred	McDonaldville	256	April 26, 1913
Craig, Russel H.	Macklin	267	May 3, 1913
Currie, Dugald	Athabasca	273	May 14, 1913
Compton, John A.	Vermilion	301	June 21, 1913
Carson, William	Edmonton	331	Aug. 21, 1913
Carman, Alvin E.	Airdrie	363	Sept. 20, 1913
Carrier, Charles H.	Calgary	364	Sept. 20, 1913
Chubb, Ernest	Kew	365	Sept. 20, 1913
Cromarty, William A.	Pakan	376	Sept. 5, 1913
Courtright, Leo	Maughan	316	July 30, 1913
Campbell, John C.	Taber	455	April 16, 1914
Corbett, Richard A.	Edmonton S.	587	Oct. 13, 1914
Clark, Albert M.	Warner	438	April 2, 1914
Collett, Daniel R.	Taber	446	April 15, 1914
Carter, David M.	O'Haton	456	April 16, 1914
Charuk, Nicholas	Vegreville	479	April 17, 1914
Connelly, William A.	Cummings	480	April 17, 1914
Clawson, Horatio S.	Bassano	490	April 23, 1914
Cote, Peter	St. Edouard	513	April 29, 1914
Cole, Frank	P. R. Crossing	540	July 25, 1914
Cordel, Marius C.	Halkirk	562	Sept. 15, 1914
Cooper, William H.	High River	606	Nov. 23, 1914
Coultsman, Stanton	Orbindale	608	Dec. 11, 1914
Donnelly, Walter S.	Bow Island	33	June 14, 1912
Dimmer, Matt	Coaldale	67	Aug. 14, 1912
Dopp, Barnett	Seven Persons	88	Sept. 17, 1912
Danielson, Daniel T.	St. Kilda	89	Sept. 17, 1912
Derby, Bernie E.	Fort Saskatchewan ..	111	Sept. 20, 1912
Dalquist, August	Calmar	133	Nov. 8, 1912
Dillard, James	Killam	181	Mar. 28, 1913
Delmage, Harry	Taber	203	April 3, 1913
Davis, Henry D.	Three Hills	206	April 4, 1913
Davis, James M.	Ranfurly	234	April 17, 1913
Djuff, Kleng	Dina	257	April 26, 1913
Ducholke, Mike	Stony Plain	258	April 26, 1913
Deas, John W.	Edmonton	284	May 20, 1913

TRACTION ENGINEERS' Final Certificates.—*Continued.*

NAME.	ADDRESS.	CERT. NO. OF	DATE OF ISSUE.
Dobbs, Leo. W.	Iowalta	290	June 16, 1913
Day, George F.	Jackville	309	July 15, 1913
Dierks, Charles Theo	Calgary	366	Sept. 20, 1913
Desler, Herman F.	Stavely	431	Mar. 27, 1914
Davis, Harry	Edmonton	433	April 2, 1914
Eggenberger, Emil W.	Coalbanks	4	May 13, 1912
Engle, Ralph N.	Bassano	31	June 11, 1912
Elliott, Walter E.	Calgary	130	Oct. 19, 1912
Estwick, Emanuel	Carlstadt	216	April 7, 1913
Enzenauer, Arthur	Loma	217	April 7, 1913
Ensign, A. L.	Whitla	327	Aug. 12, 1913
Earl, William R.	Norton	427	Mar. 16, 1914
Edwards, Richard	Carmangay	447	April 15, 1914
English, Wm. S. O.	Spirit River	541	Aug. 5, 1914
Estell, Earl E.	Mirror	563	Aug. 15, 1914
Ellefson, Andrew	Balham	596	Oct. 19, 1914
Fyrk, Gust	Pendant D'Oreille ...	12	May 18, 1912
Firth, Wilfred	Lethbridge	123	Oct. 17, 1912
Frederickson, D. O.	Calgary	134	Nov. 8, 1912
Forbes, Percy H.	Lacombe	143	Jan. 24, 1913
Fry, John	Edmonton	312	July 17, 1913
Farries, Cameron	Grassy Lake	326	Aug. 12, 1913
Forbes, Henry	Lacombe	343	Sept. 16, 1913
Finlay, L. Jackson	Calgary	367	Sept. 20, 1913
Forey, John J.	Big Valley	525	June 12, 1914
Foster, Alfred J.	Consort	411	Mar. 12, 1914
Foster, Norman M.	Consort	412	Mar. 12, 1914
Fogarty, Francis D.	Whitla	448	April 15, 1914
Fitzgerald, William	St. Paul de Metis ...	514	April 29, 1914
Freadrich, Albert H.	Strome	542	Aug. 11, 1914
Furnish, Jesse E.	Langdon	556	Aug. 22, 1914
Ferguson, Robert	Tudor	568	Sept. 21, 1914
Faith, William A.	Vegreville	572	Sept. 30, 1914
Fuhrhop, Otto	Edmonton S.	588	Oct. 15, 1914
Ferguson, Fred. G.	Spruce Grove	589	Oct. 15, 1914
Green, John Hy.	Staunton	68	Aug. 14, 1912
Gray, Joseph O.	Grassy Lake	13	May 18, 1912
Grubert, Henry	Leduc	57	Aug. 12, 1912
Gow, Archibald	Athabasca Landing ..	40	June 28, 1912
Gilchrist, Lee	Hill Springs	90	Sept. 17, 1912
Graham, Fred O.	Claresholm	91	Sept. 17, 1912
Gibson, Raymond	Warner	152	Mar. 10, 1913
Gale, Edwin	Stettler	182	Mar. 28, 1913
Gibson, E. E.	Warner	200	Mar. 31, 1913
Gibeault, J. Eugene	Morinville	443	April 14, 1914
Gray, Wm. Bain	Okotoks	409	Feb. 19, 1914
Graham, James F.	Brocket	420	Mar. 14, 1914
Gilbertson, Charley	Oyen	457	April 16, 1914
Goodwill, Seth	Cereal	458	April 16, 1914
Gray, Harry L.	Whitla	491	April 23, 1914
Gerrie, William	Orville	536	June 22, 1914
Geistlinger, Chas.	Golden Spike	539	July 16, 1914
Gesha, Rhiengold	Bawlf	549	Aug. 14, 1914
Goeble, Louis H.	Spruce Grove	550	Aug. 17, 1914
Grandahl, Albert	Kingman	551	Aug. 17, 1914
Goebel, Matthias	Spruce Grove	609	Dec. 11, 1914
Gotenborg, Otto T.	Coutts	252	April 21, 1913
Getts, Gardo F.	Carmangay	253	April 23, 1913
Green, George H.	Alsask	285	May 21, 1913
Gale, Joseph A.	Stettler	291	June 16, 1913

TRACTION ENGINEERS' Final Certificates.—Continued.

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Garrison, Clinton	Edmonton	325	Aug. 12, 1913
George, Fred R.	Cadogan	332	Aug. 21, 1913
Gitzel, Gustave	Stony Plain	333	Aug. 21, 1913
Groft, John W.	Strathmore	368	Sept. 20, 1913
Gauthier, Artem	Edmonton S.	548	Aug. 12, 1914
Giese, Henry	Spruce Grove	392	Oct. 22, 1913
Harwood, Gordon W.	Stettler	5	May 13, 1912
Hesse, William	Calgary	18	May 22, 1912
Hewer, Eber J.	Hairy Hill	58	Aug. 12, 1912
Haley, Edward Geo.	Wheat Centre	74	Aug. 20, 1912
Hantsman, Lewis J.	Carmangay	92	Aug. 17, 1912
Hall, Wm. J.	Calgary	105	Sept. 19, 1912
Harmel, Edward	Edmonton	116	Sept. 27, 1912
Henderson, Harry	Okotoks	128	Oct. 19, 1912
Harris, William Ira	Raymond	167	Mar. 19, 1913
Hagen, Lars E.	Donalda	183	Mar. 28, 1913
Hill, Wellington	Macklin	184	Mar. 28, 1913
Hills, W. Ellsworth	Camrose	185	Mar. 28, 1913
Hodgson, Thomas	Taber	204	April 3, 1913
Hibbert, William J.	Medicine Hat	229	April 15, 1913
Hill, Leslie	Calgary	238	April 21, 1913
Howard, Lindsay L.	Calgary	244	April 21, 1913
Holden, Frank	Lethbridge	254	April 21, 1913
Hellekson, Hy J.	Edson	259	April 26, 1913
Houle, William	Edison	274	May 14, 1913
Hyatt, James E.	Halkirk	292	June 16, 1913
Harrison, Oscar W.	Noble	321	Aug. 11, 1913
Hilstad, Carl	Bentley	344	Sept. 16, 1913
Huculak, Bronislaw	Skaro	401	Dec. 17, 1913
Hallvarson, Peter W.	Black Diamond	612	Dec. 15, 1914
Hart, Wm. A.	Lethbridge	405	Feb. 12, 1914
Harper , Morden	Lethbridge	421	Mar. 14, 1914
Hacke, William	Milk River	439	April 2, 1914
Hanson, Henry L.	Bawlf	459	April 16, 1914
Hess, Thurman C.	Oyen	460	April 16, 1914
Huff, Henry	Provost	461	April 16, 1914
Heald, Ivan	Winnifred	492	April 23, 1914
Henry, Charles T.	Bow Island	493	April 23, 1914
Hill, Joseph I.	Ryley	502	April 27, 1914
Hermansen, Carl	Fox	528	June 17, 1914
Hendrickson, Chas. G.	Red Deer	564	Sept. 15, 1914
Hopkins, James W.	Trentville	565	Sept. 15, 1914
Hayes, Daniel W.	Battenberg	573	Sept. 30, 1914
Hennig, Jacob	Stoney Plain	574	Sept. 30, 1914
Haun, Burton	Irma	590	Sept. 15, 1914
Henderson, Richard	Raymond	594	Oct. 17, 1914
Hapal, Edward	Edmonton	604	Nov. 19, 1914
Hawrylink, Fred.	Vegreville	605	Nov. 19, 1914
Holcomb, Harry W.	High River	607	Nov. 23, 1914
Iverson, Louis O.	Bismarck	29	June 10, 1912
Irving, Frank	Edmonton	302	June 21, 1913
Jerome, Earl	Noble	14	May 18, 1912
Johnson, John G.	Suffield	19	May 22, 1912
Johnson, Aug. K.	Strathcona	25	May 29, 1912
Jackson, Lionel A.	Calgary	75	Aug. 20, 1912
Jamieson, Harry W.	Nanton	76	Aug. 20, 1912
Johannsen, Hy. G.	Bergen	113	Sept. 21, 1912
Johnston, Albert E.	Edmonton	117	Sept. 27, 1912
Johnson, Oscar F.	Strathmore	139	Dec. 18, 1912
Jackline, Morley	Lethbridge	306	July 10, 1913

TRACTION ENGINEERS' Final Certificates.—*Continued.*

NAME.	ADDRESS.	CERT. NO. OF	DATE OF ISSUE.
Johnson, Lars B.	Donalda	186	Mar. 28, 1913
James, William J.	Halkirk	207	April 4, 1913
Julson, Hans G.	Bassano	239	April 21, 1913
Jennings, Thomas	Strathmore	240	April 21, 1913
Johnson, John A.	Millet	271	May 10, 1913
Johnson, Louis	Brockett	280	May 15, 1913
Johnson, Cornelius G.	Carlstadt	317	Aug. 6, 1913
Johnson, J. O.	Stoppington	322	Aug. 11, 1913
Johnston, Edwin N.	Yetwood	329	Aug. 12, 1913
Jackson, Adam W.	Coronation	413	Mar. 12, 1914
Johnison, Jacob B.	Reid Hill	449	April 15, 1914
Jackson, And. S.	Richdale	462	April 16, 1914
Jenkins, Rueben R.	Ponoka	463	April 16, 1914
Johnson, Hjalmar B.	Angle Lake	481	April 17, 1914
Johnson, Gunnar	Edmonton	537	June 22, 1914
Johnson, Jno. Henry	Bow Island	544	Aug. 12, 1914
James, Thos.	Cochrane	558	Aug. 22, 1914
Johnson, Jno. Edgar	Gwinne	591	Oct. 15, 1914
Klaparezuk, Stephen	Mundare	121	Oct. 14, 1912
Krodel, John A.	Irvine	55	July 23, 1912
Koester, Clarence G.	Lost Lake	69	Aug. 14, 1912
Kelly, Robert	Calgary	77	Aug. 20, 1912
Kuhl, Edward	Calgary	20	May 22, 1912
Kirsthman, Jacob	Castor	208	April 4, 1913
Knight, Absalom	Sounding Creek	209	April 4, 1913
Klageg, Knut	Calgary	241	April 21, 1913
Killian, Andrew A.	Holden	260	April 26, 1913
Knape, Gus F.	Bassano	318	Aug. 6, 1913
Kruger, Rune H.	Trochu	345	Sept. 16, 1913
Kotscherofsky, John	Stony Plain	377	Sept. 25, 1913
Kleparczuk, Michael	Chipman	393	Oct. 22, 1913
Kruschel, Julius	Bowden	414	Mar. 12, 1914
Kenney, Ernest	Calgary	488	April 21, 1914
Kuhl, Adolph	Nanton	494	April 23, 1914
Kvindegard, Lars	Innisfree	552	Aug. 17, 1914
Kirstein, Rudolph	Wetaskiwin	603	Nov. 14, 1914
Loomer, Chas. S.	Endiang	6	May 13, 1912
Langer, Paul	Eckville	30	June 10, 1912
Lyon, Jay	Claresholm	35	June 14, 1912
Latta, Charles W.	Tofield	39	June 17, 1912
Lawin, Frank E.	Pine Creek	59	Aug. 12, 1912
Lawler, Joseph W.	Lethbridge	70	Aug. 14, 1912
Lefebvre, Adelard J.	Irvine	72	Aug. 14, 1912
Litke, Steve	Gleichen	78	Aug. 20, 1912
Lynn, John W.	Crossfield	101	Sept. 19, 1912
Lerbeckmo, Peter	Bardo	112	Sept. 20, 1912
Lagrasse, John L.	Edison	275	May 14, 1913
Love, Charles M.	Lethbridge	150	Feb. 19, 1913
Lindquist, John A.	Bigstone	218	April 7, 1913
Loewen, Jacob D. R.	Sunnyslope	219	April 7, 1913
Lapierre, Joseph	Duvernay	235	April 17, 1913
Lucas, Jacob A.	Calgary	242	April 21, 1913
Levers, Reginald	Munson	243	April 21, 1913
Long, Arth S.	Bassano	245	April 21, 1913
Lawson, Harry	Edgerton	261	April 26, 1913
Lawin, Edward A.	Pine Creek	262	April 26, 1913
Lindblad, Henning	Spring Coulee	281	May 15, 1913
Lyon, Herbert T.	Calgary	323	Aug. 11, 1913
Lindquist, Arthur	Czar	346	Sept. 16, 1913
Leicht, David	Hanna	347	Sept. 16, 1913
LaValley, Lawrence	Carmangay	354	Sept. 18, 1913

TRACTION ENGINEERS' Final Certificates.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Lee, Ole J.	Bow Island	355	Sept. 18, 1913
Lepard, Norman	Claresholm	356	Sept. 18, 1913
Lovering, Eroul E.	Iron Springs	357	Sept. 18, 1913
Lee, Henry	Wetaskiwin	378	Sept. 25, 1913
Lindsay, Chas. B.	Greenshields	379	Sept. 25, 1913
Lobb, Rodmond	Edmonton	380	Sept. 25, 1913
Lund, Otto O.	Holden	381	Sept. 25, 1913
Letourneau, Leo. M.	High River	397	Nov. 8, 1913
Loney, Thos. E.	Donalda	419	Mar. 12, 1914
Linder, Thos. W.	Spring Ridge	424	Mar. 14, 1914
Lorentson, Emil	Vandyne	464	April 16, 1914
Labby, Geo.	LaCalmette	503	April 27, 1914
Lock, Jas. W.	Champion	529	June 17, 1914
Long, Reg'd Edgar	Bassano	531	June 20, 1914
Leedholm, Gust. T.	Lougheed	566	Sept. 15, 1914
Lockhart, Fred'k R.	Edmonton	575	Sept. 30, 1914
Lund, Ole O.	Viking	597	Oct. 19, 1914
Lindholm, Rodger	Calgary	599	Oct. 20, 1914
Lees, Wm.	Edmonton	610	Dec. 11, 1914
Lougheed, Hy. W.	Nanton	613	Dec. 17, 1914
Magill, Otis D.	Calgary	79	Aug. 20, 1912
Matti, Adolf	Macleod	93	Sept. 17, 1912
Maki, Gust	Sylvan Lake	135	Nov. 12, 1912
Mullane, Chris. D.	Lethbridge	137	Dec. 17, 1912
Marty, Robert Jr.	Carlstadt	315	July 30, 1913
Muir, George S.	Pincher Creek	162	Mar. 14, 1913
Melnyk, Joseph	Lamont	170	Mar. 26, 1913
Madden, Fred C.	Cardston	201	Mar. 29, 1913
Morgenroth, Emil	Langdon	220	April 7, 1913
Marty, Oscar	Suffield	221	April 7, 1913
Mitchell, William A.	Tofield	264	April 26, 1913
Manske, Gustav	Macklin	268	May 3, 1913
Mark, Leonard	Manville	269	May 3, 1913
Mundell, David L.	Cherhill	276	May 14, 1913
Martin, Harvey R.	Namaka	296	June 18, 1913
Moore, George	Winnifred	298	June 19, 1913
Mead, Russell	Calgary	310	July 15, 1913
Minchon, John	Bruce	334	Aug. 21, 1913
Moss, John B.	Stavely	353	Sept. 18, 1913
Maynard, Frank	Britain	388	Oct. 10, 1913
Marshall, Chas. Theo.	Spring Point	422	Mar. 14, 1914
Mitchell, Robt. Geo.	Tofield	435	April 2, 1914
Martin, Jas. E.	Mecheche	466	April 16, 1914
Moe, Alfred	Perbeck	467	April 16, 1914
Mjolsness, Alfred	Didsbury	468	April 16, 1914
Maurer, Alfred Robt.	Hussar	520	May 18, 1914
Murschel, Emanuel	Calgary	532	June 20, 1914
Morris, Creed R.	Nobleford	546	Aug. 12, 1914
Maxwell, Henry C.	Claresholm	547	Aug. 12, 1914
Manning, Henry B.	Amisk	576	Sept. 30, 1914
Martin, Wm. Henry	Bremner	577	Sept. 30, 1914
Miller, Ludwig	Edmonton S.	578	Sept. 30, 1914
Magee, Wm. C.	Parkland	600	Oct. 20, 1914
McCoy, Martin H.	Coaldale	15	May 18, 1912
McGhan, Lloyd James	Clover Bar	60	Aug. 12, 1912
McNab, Duncan	Kipp	96	Sept. 17, 1912
McDowell, Grant S.	Vulcan	124	Oct. 17, 1912
McNarland, Robert J.	Granum	338	Aug. 29, 1913
McGinnis, John W.	Lethbridge	374	Sept. 23, 1913
McKeage, Alfred	Aldersyde	158	Mar. 14, 1913
McWhirter, And. L.	Round Hill	225	April 10, 1913

TRACTION ENGINEERS' Final Certificates.—*Continued*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
McLeod, Alex	Walsh	230	April 15, 1913
McKinney, Heber	Suffield	231	April 15, 1913
McLeod, James	Paradise Valley	263	April 26, 1913
McNally, Roy	Alsask	314	July 22, 1913
McKenzie, Rod	Midnapore ..	389	Oct. 13, 1913
McDonald, Wm.	Edmonton	406	Feb. 16, 1914
McGowan, Wm.	Castor	415	Mar. 12, 1914
McGinnis, Jas.	Cowley	429	Mar. 24, 1914
McFadden, Chas. B.	Edmonton	434	April 2, 1914
McKay, Malcolm	Carmanagay	450	April 15, 1914
McNabb, A. R.	Chinook	465	April 16, 1914
McMullen, Robt.	Downing	482	April 17, 1914
McCaughey, Frank H.	Bassano	495	April 23, 1914
McCaig, Clifford Roy	Wainwright	504	April 27, 1914
McCoy, Jos. Ed.	Edmonton	515	April 29, 1914
McGhan, Jas.	Bremner	516	May 7, 1914
MacDougall, Leonard	Keephills	523	May 19, 1914
McGowan, Jno. M.	Richdale	557	Aug. 22, 1914
McBeth, Jas. Austin	Tofield	579	Sept. 30, 1914
Nichols, Edward A.	Bow Island	153	Mar. 10, 1912
Narkaus, Thomas	Granum	168	Mar. 19, 1912
Nickerson, Joseph H.	Strome	171	Mar. 26, 1912
Nulph, James G.	Sedgewick	187	Mar. 28, 1912
Nelson, Norman	Cadogan	188	Mar. 28, 1912
Norton, Russell J.	Richdale	246	April 21, 1912
Nelson, Ernest W.	Calgary	125	Oct. 19, 1912
Nemsgern, Nicholas	Claresholm	94	Sept. 17, 1912
Norris, Roy James	Lethbridge	95	Dec. 17, 1912
Northern, B. W.	Calgary	324	Aug. 11, 1913
Nafziger, Joseph G.	Vulcan	358	Sept. 18, 1913
Nichol, James	Langdon	369	Sept. 20, 1913
Nelson, Sanford E.	Yeoford	403	Jan. 12, 1914
Nichols, Roy A.	Donalda	469	April 16, 1914
Nelson, Nels C.	Edmonton	505	April 27, 1914
Neutzing, John	Bashaw	526	June 13, 1914
Noyak, Isidore E.	Vegreville	553	Aug. 17, 1914
Norberg, John	Boyne Lake	592	Oct. 15, 1914
Ogden, Herman E.	Pincher City	34	June 14, 1912
Olson, Oscar T.	Hutton	49	July 18, 1912
Osterloh, George	Pleasington	144	Feb. 12, 1913
Olsgard, Oliver E.	Halkirk	189	Mar. 28, 1913
Owen, Arthur	Bassano	222	April 7, 1913
O'Neil, James W.	Winnifred	232	April 15, 1913
O'Connor, Tim	Manville	236	April 17, 1913
Overgard, Jacob	Crossfield	247	April 21, 1913
Ostheller, Ferdinand	Trochu	348	Sept. 16, 1913
Owre, Angus L.	Daysland	470	April 16, 1914
Osell, William J.	Midnapore	569	Sept. 21, 1914
Olsen, Andrew B.	Irma	593	Oct. 15, 1914
Perin, Charles A.	Calgary	50	July 18, 1912
Pearson, Vernon	Lethbridge	54	July 19, 1912
Pennington, Wm.	Lethbridge	136	Nov. 13, 1912
Pearson, Augustus	Bellevue	163	Mar. 19, 1913
Proudley, Harry	Lethbridge	154	Mar. 10, 1913
Petersen, Henry A.	Ohaton	190	Mar. 28, 1913
Pettie, Lewis L.	Castor	210	April 4, 1913
Pudwell, Henry	Medicine Hat	233	April 15, 1913
Paulin, Henry	Vegreville	237	April 17, 1913
Parken, Walter	Calgary	248	April 21, 1913
Perry, George H.	Perbeck	293	June 16, 1913

TRACTION ENGINEERS' Final Certificates.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Palmer, Wilfred	Albay	299	June 19, 1913
Peabody, Harvey M.	Calgary	349	Sept. 16, 1913
Phelps, Harvey J.	Tofield	335	Aug. 21, 1913
Paulson, John M.	Barons	359	Sept. 18, 1913
Petit, Moise	Edmonton N.	382	Sept. 25, 1913
Pinkham, Edwin S.	Leslieville	390	Oct. 13, 1913
Pettie, Earl L.	Castor	416	Mar. 12, 1914
Peters, Henry H.	Carbon	430	Mar. 25, 1914
Peterson, Einer A.	Major	440	April 6, 1914
Phillips, Thomas H.	Holden	483	April 17, 1914
Perkins, Percy J.	Richdale	519	May 13, 1914
Patterson, Norman J.	Nobleford	530	June 17, 1914
Pue, William H.	Cheadle	533	June 20, 1914
Parrent, Alexander	Jeffrey	580	Sept. 30, 1914
Peterson, Robert T.	Gleichen	601	Oct. 20, 1914
Robertson, Donald	Medicine Hat	36	June 14, 1912
Rowlands, Hugh G.	Delroys	51	July 18, 1912
Rennie, James C.	Yetwood	71	Aug. 14, 1912
Rhoads, George	Calgary	80	Aug. 20, 1912
Rickey, Foster	Lethbridge	97	Sept. 17, 1912
Richardson, C. E.	Carstairs	146	Feb. 13, 1913
Rifford, Thaddeus	Stavely	149	Feb. 19, 1913
Ravensborg, Harry	Asker	191	Mar. 28, 1913
Roberts, Delbert	West Wingham	192	Mar. 28, 1913
Ramsey, Frank	West Wingham	211	April 4, 1913
Rousche, Claud	Gleichen	223	April 4, 1913
Roneberg, Edward	Eagle Hill	249	April 21, 1913
Raitz, Charles E.	Warner	282	May 15, 1913
Ross, Anson Charles	Lethbridge	300	June 19, 1913
Roth, Gustave	Leduc	336	Aug. 21, 1913
Radcliffe, Fred M.	Stony Plain	337	Aug. 21, 1913
Ross, Chas. Chris.	Innisfail	350	Sept. 16, 1913
Rhoads, Harvey L.	Calgary	370	Sept. 20, 1913
Rhyason, William	Strome	394	Oct. 22, 1913
Robb, Charles	Bassano	521	May 18, 1914
Richards, Alex	Sullivan Lake	527	June 13, 1914
Richards, Benjamin M.	Strome	554	Aug. 17, 1914
Rathbun, Lucius F.	High River	559	Aug. 22, 1914
Robbins, Asahel S.	P. R. Crossing	570	Sept. 23, 1914
Reddick, Robert E.	Calgary	602	Oct. 20, 1914
Smith, Rowland	Caseleyville	7	May 13, 1912
Scheersmidt, Bernhardt	Stettler	8	May 13, 1912
Smith, Manley	Olds	11	May 15, 1912
Scott, William J.	Bassano	21	May 22, 1912
Stauffer, John L.	Round Hill	24	May 29, 1912
Scott, Allan O.	Kinsella	42	July 16, 1912
Stott, John J.	Hardisty	43	July 16, 1912
Sidey, Elmer	Jethson	52	July 18, 1912
Sandstrom, Axel	Calmar	61	Aug. 12, 1912
Schultz, Fred H.	Bruderheim	62	Aug. 12, 1912
Samuelson, Lorantz	Cummings	63	Aug. 12, 1912
Stewart, William J.	Hughenden	81	Aug. 22, 1912
Straus, Fred J.	Stavely	98	Sept. 17, 1912
Scott, Robert T.	Cayley	108	Sept. 19, 1912
Stevenson, Ivie W.	Calgary	109	Sept. 19, 1912
Stewart, Martin O.	Calgary	110	Sept. 19, 1912
Smith, Aug. W. De'H.	Paddle River	114	Sept. 20, 1912
Snell, Edward	Bittern Lake	118	Sept. 27, 1912
Scheideman, John	Mewassin	120	Oct. 10, 1912
Streich, Daniel	Content	145	Feb. 12, 1913
Senff, Ernest W.	Blackie	159	Mar. 14, 1913

TRACTION ENGINEERS' Final Certificates.—*Continued*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Stuckey, Richard P.	Calgary	160	Mar. 14, 1913
Sorge, Otto R.	Pincher Creek	164	Mar. 19, 1913
Sharlow, Hy. T.	Wetaskiwin	193	Mar. 28, 1912
Shantz, Wilfred S.	Didsbury	212	April 4, 1913
Semple, Hugh	Chauvin	265	April 26, 1913
Swift, George H.	Magin	270	May 3, 1913
Stoner, Edgar C.	Lacombe	272	May 12, 1913
Shank, Eddie J.	Athabasca	277	May 14, 1913
Shank, Philip	Athabasca	278	May 14, 1913
Sims, John B.	Namaka	295	June 18, 1913
Shelton, Henry	Edmonton	303	June 21, 1913
Symington, George	Edmonton	304	June 21, 1913
Sheets, William H.	Viking	313	July 17, 1913
Smith, Charles	Gladby	320	Aug. 9, 1913
Sterling, Edward J.	Sterlingville	351	Sept. 16, 1913
Sear, Robert J.	Calgary	371	Sept. 20, 1913
Schultze, Otto	Edmonton	383	Sept. 25, 1913
Sheets, Lloyd	Rosenroll	384	Sept. 25, 1913
Saunders, Leslie J.	Olds	395	Nov. 7, 1913
Sutton, Henry H.	Calgary	398	Nov. 8, 1913
Smith, George W.	Edmonton S.	408	Feb. 16, 1914
Slater, Ray L.	Consort	417	Mar. 12, 1914
Shaw, Rollie W.	Nanton	425	Mar. 14, 1914
Steen, Arnold	Bardo	436	April 2, 1914
Scott, Ernest S.	Gleichen	442	April 6, 1914
Shankey, Wm. John	Rose Lynn	471	April 16, 1914
Shepard, Walter	New Brigden	472	April 16, 1914
Sorenson, Andrew	Killam	473	April 16, 1914
Sprague, Lawren. W.	Monitor	474	April 16, 1914
Steele, Robert J.	Cadogan	475	April 16, 1914
Schmidt, Louis	Brightview	476	April 16, 1914
Strauman, Carl	Islay	484	April 17, 1914
Schlosser, Seymour	Mosside	485	April 17, 1914
Spring, Henry C.	Bow Island	496	April 23, 1914
Stoddart, Charles	Paradise Valley	506	April 27, 1914
Steffes, Alva. A.	Morinville	509	April 27, 1914
Sherbeck, Carl O.	Wetaskiwin	543	Aug. 11, 1914
Stevens, Levi	Inga	581	Sept. 30, 1914
Steinbach, John	Vegreville	582	Sept. 30, 1914
Suder, George	Spruce Grove	583	Sept. 30, 1914
Simmons, Fred	Fort Saskatchewan ..	598	Oct. 19, 1914
Shaffer, William J.	Cravath Corners	611	Dec. 11, 1914
Tellesen, Alex	Ingleton	9	May 13, 1912
Tupper, Roy O.	Entwistle	23	May 29, 1912
Thordarson, Chris.	Clover Bar	44	July 16, 1912
Thompson, Charles	Bow Island	99	Sept. 17, 1912
Trudgeon, Thomas	High River	147	Feb. 13, 1913
Thoenke, William	Magrath	151	Feb. 19, 1913
Tweedle, Hawland T.	Fishburn	165	Mar. 19, 1913
Tucker, Leroy C.	Stavelly	169	Mar. 19, 1913
Tronson, Ludwig M.	Asker	194	Mar. 28, 1913
Tenny, Harry E.	Warner	198	Mar. 31, 1913
Tomfohr, Henry H.	Milk River	202	Mar. 29, 1913
Tweedt, Thos.	Sundial	283	May 15, 1913
Thompson, S. Bert	High River	311	July 15, 1913
Thomas, Henry Sanford	Altorado	319	Aug. 6, 1913
Taje, Edwin B.	Gwynne	352	Sept. 16, 1913
Townsend, Albert E.	Mabville	385	Sept. 25, 1913
Thompson, Loren	Coronation	418	Mar. 12, 1914
Tierney, James John	Banff	441	April 6, 1914
Tinsley, Jesse C.	Taber	451	April 15, 1914
Thompson, Charles	Dickson	477	April 16, 1914

TRACTION ENGINEERS' Final Certificates.—*Continued.*

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Trieglaff, John	Irvine	497	April 23, 1914
Turner, Alex. H. E.	Pakan	507	April 27, 1914
Thomas, Edward	Bassano	534	June 20, 1914
Transgard, Thomas E.	Lacombe	538	July 14, 1914
Underwood, Elmer A.	Gadsby	10	May 13, 1912
Utas, Chas.	Manfred	132	Nov. 7, 1912
Utas, Christian	Water Glen	64	Aug. 14, 1912
Valcour, Alga	Riviere Qui Barre ..	45	July 16, 1902
Van Horn, William	Gleichen	103	Sept. 19, 1912
Venus, George E. W.	Hand Hill	372	Sept. 20, 1913
Varty, Walter	Pine Canyon	426	Mar. 14, 1914
Willsen, William	Many Berries	16	May 18, 1912
Watters, Chas. A.	Calgary	22	May 22, 1912
Weatherhead, Marsden	Lethbridge	410	Feb. 21, 1914
Ward, Luman G.	Athabasca Landing ..	41	June 28, 1912
Whitney, John E.	Iola	47	July 17, 1912
Williamson, Charles W.	Claresholm	100	Sept. 17, 1912
Wismer, Henry F.	Nanton	102	Sept. 19, 1912
Wells, Edwin Newton	Cluny	104	Sept. 19, 1912
Wiltzen, Norman	Chipman	119	Sept. 27, 1912
Walker, Earl A.	Airdrie	148	Feb. 13, 1913
Wocknitz, Edward	Lethbridge	155	Mar. 10, 1913
Wood, James Alex.	Grand Prairie	172	Mar. 26, 1913
Walkermeyer, Wm. H.	Camrose	195	Mar. 28, 1913
Walkermeyer, Theo. W.	Camrose	196	Mar. 26, 1913
Wilson, Ralph C.	Camrose	197	Mar. 26, 1913
Whitnack, Roy A.	Ensleigh	213	April 4, 1913
Wallace, Lewis B.	Heath	266	April 26, 1913
Ward, Benj. W.	Loverna	340	Sept. 9, 1913
Whitehead, Bert	Claresholm	360	Sept. 18, 1913
Winge, Hugo	Stavely	361	Sept. 18, 1913
Walgren, Clarence E.	Vulcan	373	Sept. 20, 1913
Whitford, John A.	Pakan	386	Sept. 25, 1913
Woolhouse, William H.	Thibald	387	Sept. 25, 1913
Wiese, Fred C.	Lethbridge	399	Nov. 8, 1913
Wickens, J. A.	Cayley	560	Sept. 10, 1914
Wentz, Earl R.	Medicine Hat	518	May 13, 1914
Wideman, Ivy H.	Mayton	404	Feb. 12, 1914
Westar, John H.	Edmonton	437	April 2, 1914
Winkler, John G.	Taber	452	April 15, 1914
Weaver, Guy V.	Calgary	489	April 21, 1914
Wojcik, Egnats	Bow Island	498	April 23, 1914
Wojcik, Charles	Bow Island	499	April 23, 1914
Watts, Charles D.	Rising Sun	510	April 27, 1914
Wagar, Jacob E.	Medicine Hat	517	May 13, 1914
Waldis, Hieronymus	Calgary	522	May 18, 1914
Willoughby, Charles	Edmonton	524	May 19, 1914
Winbigler, Zerotus F.	Shaftesbury	571	Sept. 23, 1914
Wolverton, John C.	Tawatinau	584	Sept. 30, 1914
Yates, Ray	Calgary	161	Mar. 14, 1913
Yerxa, William H.	Lethbridge	328	Aug. 12, 1913
Yoder, Ira M.	Taber	453	April 15, 1914
Young, William	Peguis	486	April 17, 1914
Zeyen, Charles	Lethbridge	423	Mar. 14, 1914
Zigannas, Nicholas	Luzan	487	April 17, 1914
Zucht, Gustav	Stony Plain	585	Sept. 30, 1914

FIREMEN'S Final Certificates.

NAME.	ADDRESS.	NO. OF CERT.	DATE OF ISSUE.
Allen, Frederick	Edmonton S.	8	April 6, 1913
Boyce, Walter E.	Calgary	23	Dec. 31, 1913
Bufus, John	Calgary	29	Feb. 19, 1914
Barnes, Arthur J.	Calgary	35	April 14, 1914
Brown, Rhad. E.	Edmonton	36	May 13, 1914
Beane, John	Calgary	41	May 20, 1914
Black, George	Calgary	47	Aug. 22, 1914
Carlslake, Albert E.	Banff	34	April 6, 1914
Cooper, James A.	Edmonton	37	May 13, 1914
Carr, Thomas T.	Edmonton	38	May 13, 1914
Christian, Rufus Hy.	Edmonton	49	Nov. 19, 1914
Cowie, John	Calgary	50	Nov. 23, 1914
D'Altroy, George	Medicine Hat	24	Jan. 10, 1914
Denby, Melvin S.	Calgary	45	June 20, 1914
Fenton, Daniel L.	Edmonton	9	June 21, 1913
Fows, Roland	Edmonton S.	14	Oct. 14, 1913
Faure, Henri	Calgary	27	Feb. 5, 1914
Forest, John	Calgary	42	May 20, 1914
Fletcher, Thomas	Calgary	53	Dec. 17, 1914
Gagne, Joseph C.	Midnapore	51	Nov. 23, 1914
Hodson, John	Edmonton	15	Oct. 14, 1913
Ham, Edwin	Brickburn	39	May 18, 1914
Hunt, Samuel George	Calgary	40	May 18, 1914
Illingworth, Wm.	Edmonton	28	Feb. 9, 1914
Lee, Elling	Calgary	3	Sept. 19, 1912
Laskey, Francis W.	Edmonton S.	16	Oct. 14, 1913
Lawrence, John	Edmonton S.	32	April 2, 1914
Miller, John B.	Calgary	1	June 21, 1912
McCartney, Grant	Edmonton	4	Oct. 8, 1912
Mendte, Theodore	Edmonton	10	June 21, 1913
Marshall, Andrew	Calgary	43	June 8, 1914
McDiarmid, Donald	Calgary	30	Feb. 19, 1914
Nichols, Albert L.	Langdon	21	Dec. 17, 1913
Neale, William	Edmonton	48	Oct. 19, 1914
Price, William	Edmonton	17	Oct. 14, 1913
Rigimbal, Louis A.	Lethbridge	6	Jan. 15, 1913
Richardson, Thomas	Edmonton	7	Mar. 26, 1913
Ryder, James J.	Calgary	18	Nov. 7, 1913
Russell, John W.	Calgary	19	Nov. 7, 1913
Reilly, Francis	Medicine Hat	31	Mar. 16, 1914
Rogers, David	Calgary	44	June 8, 1914
Spendlove, Joseph	Edmonton S.	5	Jan. 13, 1913
Switzer, Charles W.	Medicine Hat	11	July 10, 1913
Scott, Henry Joseph	Lethbridge	13	Oct. 6, 1913
Sargeant, Gordon	Banff	22	Dec. 17, 1913
Severson, Anton	Calgary	25	Jan. 12, 1914
Shultz, John D.	Calgary	26	Jan. 12, 1914
Sanderson, Thomas K.	Calgary	46	Aug. 22, 1914
Switzer, Oscar F.	Medicine Hat	52	Dec. 15, 1914
Willis, Percy W.	Calgary	2	June 21, 1912
Wahl, George F.	Calgary	12	Aug. 23, 1913
Williams, Frank John	Calgary	20	Nov. 27, 1913
Zinda, Bernard	Edmonton	33	April 2, 1914

CORRESPONDENCE BRANCH.

	1912	1913	1914
No. of letters received	51,774	60,120	52,985
No. of letters sent	51,426	48,792	50,959
Total number of communications..	103,200	108,912	103,944
No. of items of cash received	2,546	2,246	1,608
Amount of cash received	\$166,000.05	\$186,944.61	\$61,392.22
No. of registered letters received....	1,678	1,806	1,302
No. of registered letters sent	7,297	6,921	6,000
Amount of postage used	\$1,411.25	\$1,391.84	\$1,319.93
No. of files made and indexed	1,787	1,726	1,900
Letters—	Received.	Sent.	Postage.
Engineering branch	28,541	24,937	\$653.83
Surveys	13,182	13,275	268.91
Coal Mines	6,847	7,243	206.90
Steam Boilers	4,415	5,504	190.29
Total	52,985	50,959	\$1,319.93
Engineering Branch—	Surveys Branch—		
Roads	492	Roads	946
Bridges	317	Leases	51
General	11	Drains	10
Ferries	11	General	6
Buildings	10		
Engineering Branch	841		
Surveys Branch	1,013		
Coal Mines	46		
Total	1,900		
Registered letters received	1,302		
Registered letters sent	6,000		
Cash Received—	Entries.	Amount.	
Steam Boilers	621	\$16,667.55	
Coal Mines	581	8,584.70	
Surveys	303	22,950.06	
Engineering	103	13,189.91	
	1,608	\$61,392.22	

JOHN STOCKS, ESQ.,

Deputy Minister of Public Works,

Edmonton, Alberta.

Sir,—As Accountant of Public Works, I have the honour to submit herewith my annual report for the year ending December 31, 1914.

During the year 1914 the amount of revenue received by this department was less than during the previous year, owing chiefly to the fact that there were fewer sub-division plans registered, while the amounts received from the other branches of this department are about the same; the amount expended under income was considerably larger than during 1913, while the amount expended chargeable to capital account was slightly less owing to the fact that our larger works were practically completed during 1913.

Amount provided for capital expenditure during 1914	\$2,024,100.00		
Amount provided for expenditure chargeable to income	578,000.00	\$2,602,100.00	
Amount provided for civil government expenditure		74,960.00	
Total amount provided in connection with Public Works for 1914		<u>2,677,060.00</u>	
Monies collected during 1914 on account of Public Works and placed to the credit of Public Works, as detailed below:			
Steam Boilers Branch	16,693.55		
Coal Mines Branch	8,622.95		
Surveys Branch:			
Grazing leases	\$ 218.00		
Townsite plans	26,517.75		
Sundries	1,113.06	27,848.81	
Monies collected by Public Works on account of sales of material, refunds, &c.	39,273.70		
Monies collected on account of Patriotic Fund	3,929.29	43,202.99	96,368.30
Monies collected by Public Works and placed to the credit of General Revenue Suspense Account	18,594.79		
Monies on hand in General Revenue Suspense Account as represented by cash book balance..		2,488.17	
Amount received from Local Improvement Districts and placed to the credit of Trust Account "A"		118,538.19	
Amount expended for work from Trust Account "A" during 1914		91,509.03	
Credit Bank Balance on Trust Account "A" from 1913		30,562.05	
Amount expended by Public Works, 1914:			
Income	\$ 577,556.48		
Capital	<u>1,427,225.34</u>		
		<u>2,004,781.82</u>	
Amount expended in connection with Civil Government		71,612.02	
Receipts	\$ 247,956.71		
Expenditure	<u>2,167,902.87</u>		
	<u>\$2,415,859.58</u>		
		<u>\$2,415,859.58</u>	

Details of expenditure from all sources for the year are as follows:

Furnishing and maintenance of all public buildings, \$205,518.03; caretaking and maintenance of government house, \$7,114.42; completing and furnishing new buildings throughout the province during the year, \$601,204.25; inspection of public works in connection with smaller works, \$6,103.54; while the inspection of trunk roads and bridges as well as the larger class of wooden and steel bridges cost, \$14,115.02; inspection of coal mines and maintenance of rescue apparatus cost \$31,478.82; the amount expended in connection with the installation of rescue stations amounted to \$9,796.47; inspection of steam boilers cost \$31,414.39; the installation, maintenance and operation of ferries in the province cost \$60,542.81; repairs and maintenance of existing bridges in the province cost \$27,538.74; the cost of the larger wooden and steel bridges cost \$195,388.75; the amount expended in connection with trunk roads and the necessary bridges thereon cost \$438,507.20; while the amount spent in connection with the ordinary roads was \$198,785.93; the cost of the survey parties in the field along with the necessary cost of road diversions amounted to \$115,956.68 and the administration of this branch along with the supervision of plans and the necessary office expenses amounted to \$4,198.99; the cost of finishing material purchased and worked up in the carpentershop for the various provincial buildings amounted to \$12,755.96; the amount expended for unforeseen and unprovided for was \$4,860.81; sites purchased for provincial buildings amounted to \$16,221.60; temporary jail accommodation provided at three points in the province cost \$23,279.41.

The total amount expended upon staff salaries for the year amounted to \$62,269.92; postage for the year, \$1,330.52; telegrams, telephone messages and express, \$1,577.31; sundries including printing, \$6,434.27; a total of \$71,612.02.

The total amount spent from the Local Improvement trust account "A" funds was \$91,509.03, of this amount \$12,863.80 was paid to the Provincial Treasurer as a proportion of cost to be borne by this account for the cost of administration through the Department of Municipal Affairs.

Number of accounts examined and passed to the Treasury Department for payment during 1914	16,113
Number of accounts passed for payment in connection with Trust Account "A" during 1914	871
Total number of accounts passed for payment	16,984
Number of cheques issued in connection with Trust Account "A" in payment of account's	3,459
Number of cheques issued in connection with General Revenue Suspense Account during the year	194
	3,653

Respectfully submitted,

HENRY K. HYDE,

Accountant of Public Works.

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